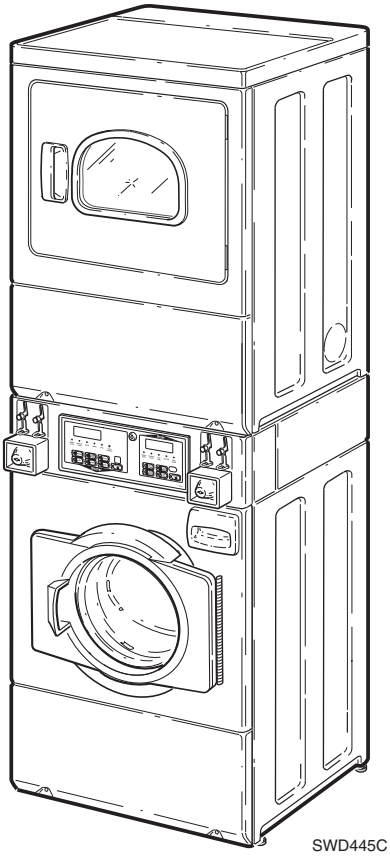
Commercial Stacked Washer/ Dryers

Refer to Page 3 for Model Numbers



SWD445C

Service

Alliance Laundry Systems

www.comlaundry.com

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Model Identification

Information in this manual is applicable to these washers.

Model Number	MDC	NetMaster	Heat
HTEB17*N2802		X	Electric
HTET17*N2802	X		Electric
HTEX17*N2802	X		Electric
HTEX17*N2902	X		Electric
HTEX17*N4064	X		Electric
HTEY17*N2802	X		Electric
HTEY17*N4064	X		Electric
HTEZ17*N2802	X		Electric
HTGB19*N0902		X	Gas
HTGT19*N0902	X		Gas
HTGX19*N0902	X		Gas
HTGY19*N0902	X		Gas
HTGZ19*N0902	X		Gas
NTEL17*N4064	X		Electric
NTEX17*N4064	X		Electric
NTEX17*N4067	X		Electric
NTGL19*N4067	X		Gas
NTGX19*N4067	X		Gas
STEA17*N4350		X	Electric
STEF17*N4350		X	Electric
STEX17*N3000	X		Electric
STEX17*N3020	X		Electric
STEX17*N3069	X		Electric
STEX17*N3300	X		Electric
STEX17*N4064	X		Electric
STEX17*N4350	X		Electric
STEX17*N5754	X		Electric
STEY17*N4064	X		Electric
STEY17*N5754	X		Electric
STGX19*N3000	X		Gas
STGX19*N3060	X		Gas
STGX19*N3069	X		Gas

*** Add Letter To Designate Color. W – White Q – Bisque**

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Notes

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Section 1
Safety Information

Throughout this manual and on machine decals, you will find precautionary statements ("CAUTION," "WARNING" and "DANGER") followed by specific instructions. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

⚠ DANGER

Danger indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.

⚠ WARNING

Warning indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.

⚠ CAUTION

Caution indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.

Additional precautionary statements ("IMPORTANT" and "NOTE") are followed by specific instructions.

IMPORTANT

The word "IMPORTANT" is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE

The word "NOTE" is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

In the interest of safety, some general precautions relating to the operation of this machine follow.

WARNING

- **Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce serious injury, death and/or property damage.**
- **Do not repair or replace any part of the machine or attempt any servicing unless specifically recommended or published in this Service Manual and that you understand and have the skills to carry out.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded and to reduce the risk of fire, electric shock, serious injury, or death.**

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

WARNING

Repairs that are made to your products by unqualified persons can result in hazards due to improper assembly or adjustments subjecting you or the inexperienced person making such repairs to the risk of serious injury, electrical shock or death.

W007

WARNING

If you or an unqualified person perform service on your machine, you must assume the responsibility for any personal injury or property damage which may result. The manufacturer will not be responsible for any injury or property damage arising from improper service and/or service procedures.

W286

NOTE: The WARNINGS and IMPORTANT INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining or operating the machine.

Always contact your dealer, distributor, service agent or the manufacturer about any problems or conditions you do not understand.

Locating an Authorized Servicer

Alliance Laundry Systems is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Alliance Laundry Systems also recommends contacting an authorized technician and using authorized factory parts.

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Section 2
Introduction

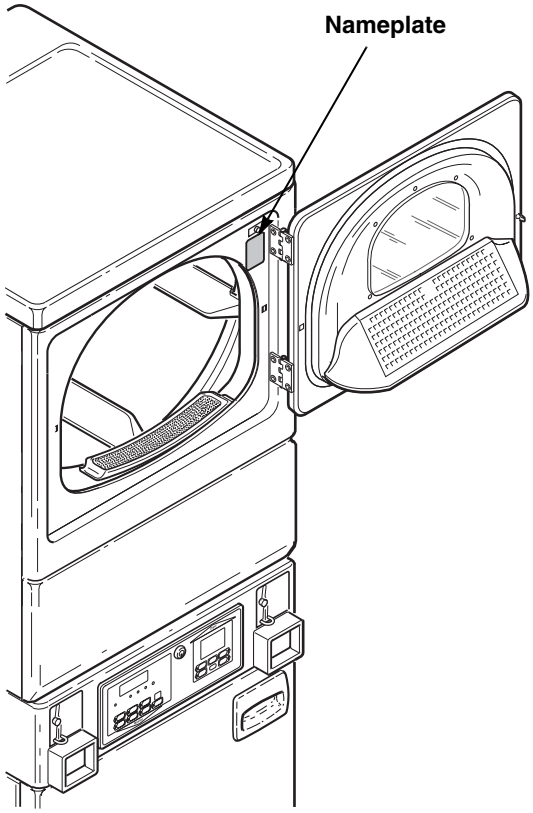
Customer Service

If literature or replacement parts are required, contact the source from whom the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

For technical assistance, call (920) 748-3121.

Nameplate Location

When calling or writing about your product, be sure to mention model and serial numbers. Model and serial numbers are located on nameplate(s) as shown.



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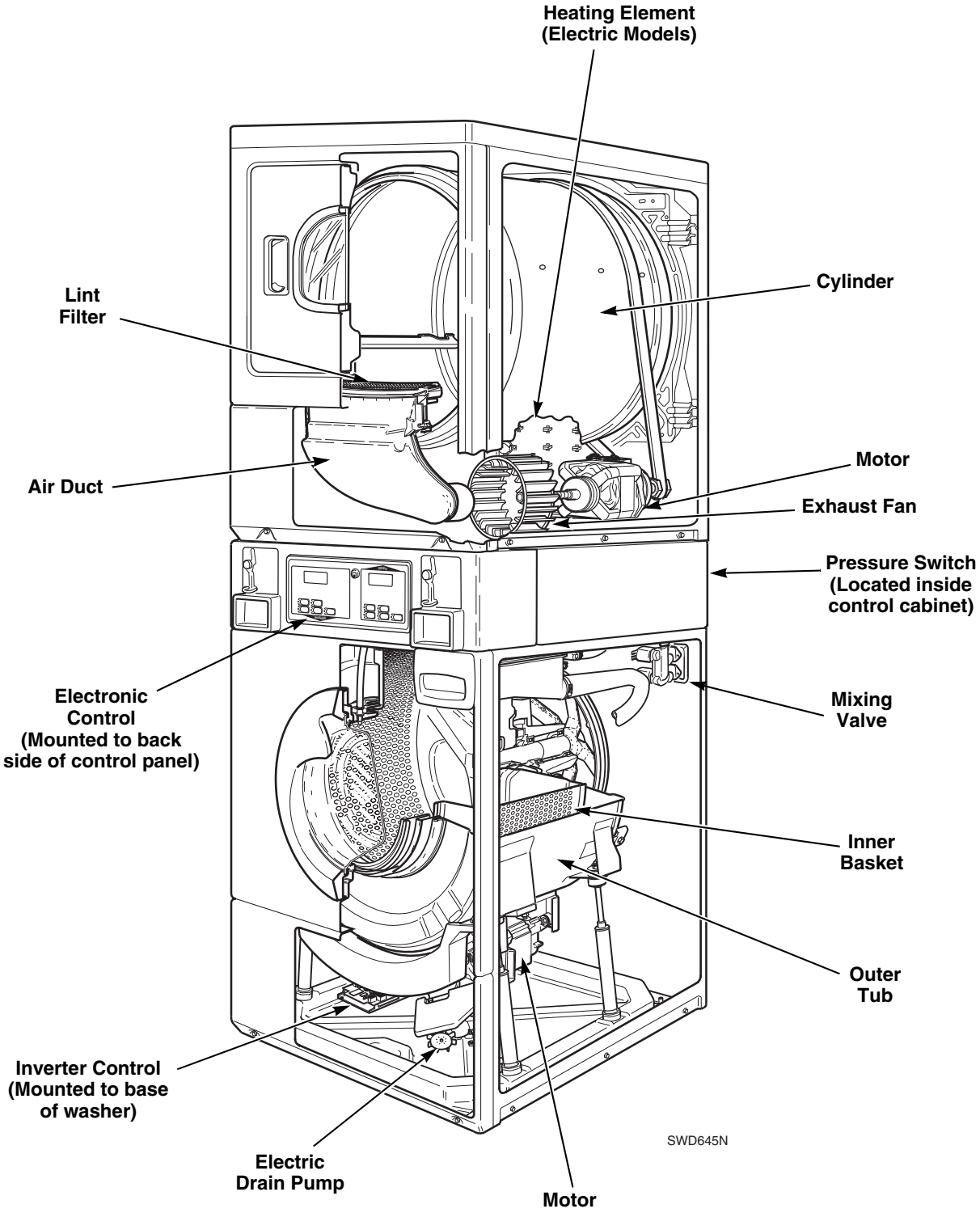
How Your Stacked Washer/Dryer Works



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General (Dryer)

The dryer uses heated air to dry loads of laundry. When the motor is started, the exhaust fan pulls fresh air in through louvers at the rear of the dryer and over the heat source (burner flame for gas and heating element for electric). The heated air moves through the heater duct and into the cylinder, where it circulates through the wet load. The air then passes through the lint filter, air duct and exhaust fan, where it is vented to the outdoors.

General (Washer)

This frontload washer provides some of the same principles of operation as the typical topload washers. It senses water level, it dispenses the desired laundry detergent, agitates the clothes for good cleaning action, removes the water out of the washer and spins the clothing in preparation for the dryer.

The difference in operation is primarily the rotational washing agitation created for the horizontal basket and drum. This agitation tumbles the clothes in a clockwise, pause, and counter-clockwise direction. This reversing tumbling action provides an efficient washing process and requires less laundry detergent and less water.

The cycle begins by locking the loading door after the vend is satisfied. The type of cycle and water temperature are determined by the appropriate pads on the Electronic control.

The inner basket starts agitating during the wash water fill. A column of air is trapped in a pressure bulb and hose. The air pressure continues to increase as the inner basket fills with water until it is great enough to activate the pressure switch which then causes the wash fill to stop.

The agitate cycle tumbles the clothing in a clockwise direction for a period of 15 seconds, pauses for nine seconds and then tumbles the clothing in a counterclockwise direction for 15 seconds. This agitation continues until the wash soak cycle. The machine stops agitating and turns on the pump or drain valve which removes the wash water.

Upon completion of the wash cycle, the machine goes into a rinse cycle. Fresh cold water is brought into the inner basket via the mixing valve until the pressure switch shuts off the water while agitating. The rinse cycle consists of agitation for a predetermined amount of time then a spin mode with the pump running where the machine goes into a series of 4 short 500 RPM spins. Two of these rinse cycles will normally take place with a third extra rinse cycle being optional.

After all the rinse cycles have been completed, the washer goes into a final high spin cycle to extract as much water as possible from the clothing to prepare them for the dryer. The spin speeds and duration of this final high spin cycle are determined by the type of wash cycle selected (refer to table).

NOTE: Washer may not reach 1000 RPM because of an out-of-balance condition. Control may limit speed to 850, 650 or 500 RPM depending on severity of out-of-balance condition.

	Regular	Perm Press	Delicate
650 RPM	3 minutes	4 minutes	4 minutes
1000 RPM	3 minutes	2 minute	0 minutes

Technical (Washer)

The basic operational system of this washer consists of the electronic control, the inverter control, pressure switch, water valves, electric pump (or drain valve) and A.C. motor.

The electronic control performs all control and timing functions like the timer in a topload washer. The electronic control sends simple speed and output commands to the inverter control via serial communication. The electronic control powers the door lock, pump and the inverter control.

The inverter control powers the A.C. motor and performs all motor control functions. The inverter control also powers the water and dispenser valves and passes the pressure switch status to the electronic control. The inverter control is powered through the door switch, door lock switch and electronic control. The inverter control also alerts the electronic control to any errors in the motor.

The inverter control uses a speed sensor on the motor to measure the drum RPM. Before entering any spin step the inverter control measures the RPM of the drum to sense out-of-balance. The inverter control will try to redistribute the clothes if an out-of-balance condition exists the inverter control will limit the spin speed to several speeds depending on the severity of the out-of-balance condition. If the out-of-balance condition is severe enough the inverter control will limit speed to 90 RPM and will not spin.

NOTE: An additional out-of-balance switch is used to detect any out-of-balance condition during spins. If this switch opens during a spin step, the inverter control immediately stops and then restarts the spin.

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Section 3
Troubleshooting

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

1. TROUBLESHOOTING COIN DROP

When coin is placed into coin slot, the coin should roll down drop and be heard dropping into coin vault. If coin does not fall into coin vault or if coin drop sensor does not register that coin has been entered, follow troubleshooting instructions on following page. Refer to *Figure 1* for path that coin follows when working properly.

IMPORTANT: Never use oil to correct coin drop problems. Oil residue will prevent coins from rolling properly.

IMPORTANT: Do not bend or damage mechanical parts within coin drop.

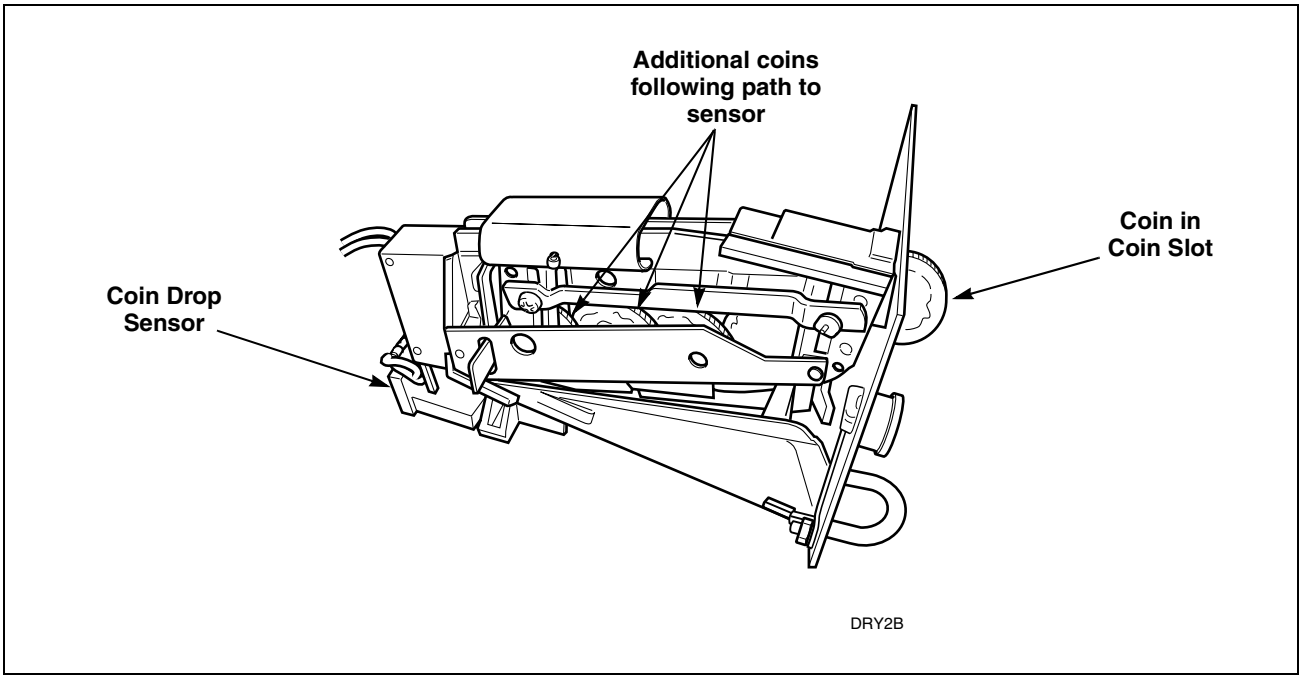

Figure 1

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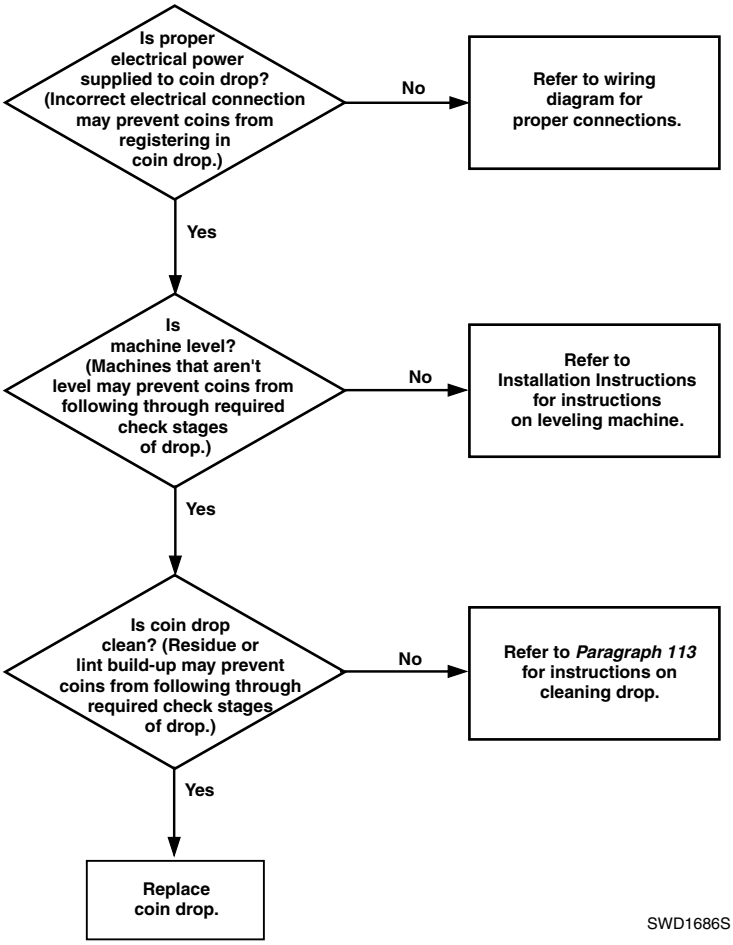
TROUBLESHOOTING COIN DROP


Is proper electrical power supplied to coin drop? (Incorrect electrical connection may prevent coins from registering in coin drop.)
No
Refer to wiring diagram for proper connections.
Yes
Is machine level? (Machines that aren't level may prevent coins from following through required check stages of drop.)
No
Refer to Installation Instructions for instructions on leveling machine.
Yes
Is coin drop clean? (Residue or lint build-up may prevent coins from following through required check stages of drop.)
No
Refer to *Paragraph 113* for instructions on cleaning drop.
Yes
Replace coin drop.
SWD1686S

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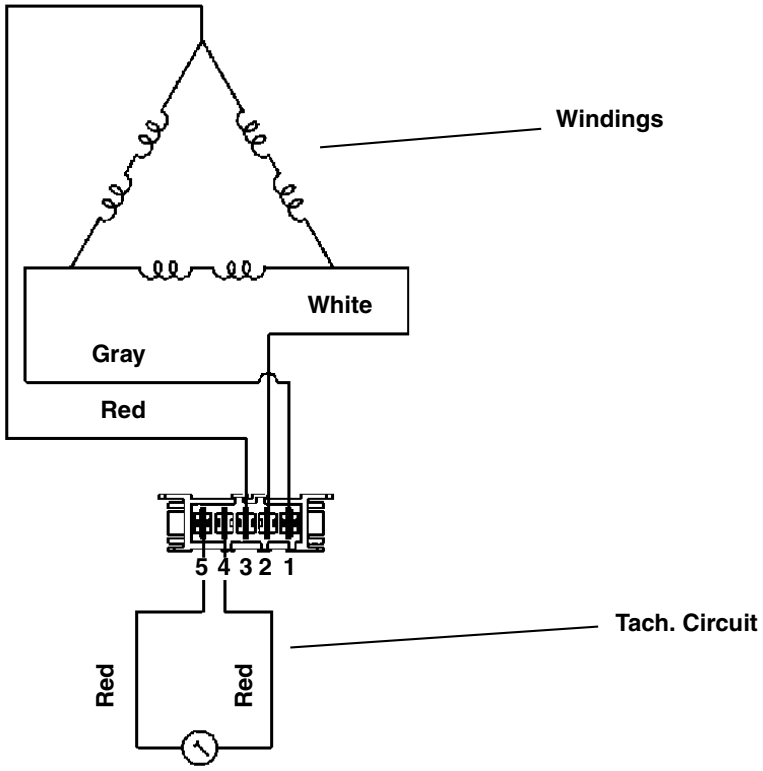
WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

2. WASHER MOTOR CIRCUIT



Resistance Values:

Tachometer Circuit:
Terminals 4–5
Approx. **115** ohms

Windings:

Terminals 1–2, 2–3, 1-3
Approx. **4.5** ohms

3. TROUBLESHOOTING KNOCKING NOISE

If a frontload washer produces a noise similar to a knock on a door, it might be due to a flat spot on the belt. The knocking sound is made when the flat spot hits the pulley. The knocking may occur during a pulse spin and fade after reaching a higher RPM.

To correct this condition, replace the belt. Refer to *Paragraph 67*.

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Notes

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Troubleshooting
Dryer

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

IMPORTANT: Refer to wiring diagram for aid in testing dryer components.

4. DRYER MOTOR DOES NOT RUN

POSSIBLE CAUSE	TO CORRECT
Electrical power off, fuse blown, or power cord not plugged in.	• Check laundry room for blown or loose fuse(s), or open circuit breaker(s). The dryer itself does not have an electrical fuse. • Check both fuses for electric models.
Loading door not closed.	• Close door.
Inoperative door switch.	• Test switch and replace if inoperative.
Motor starting functions inoperative. Does not start, or motor just hums.	• Refer to *Paragraph 115* to check start switch and start windings.
Motor is dead, will not run.	• Refer to *Paragraph 115* to check start switch, start windings, and main windings.
Motor overload protector has cycled.	• Wait two or three minutes for overload protector to reset. If protector cycles repeatedly, refer to *Paragraph 5*.
Motor centrifugal switch sticky or plugged with lint.	• Remove dust or lint and spray with a cleaner and lubricant.
Bind in motor bearing.	• Remove belt and determine if motor shaft will spin. • Replace motor if shaft is locked up.
Loose motor wire harness connection block.	• Firmly press connection block onto motor switch.
Broken, loose, or incorrect wiring.	• Refer to wiring diagram.
Power cord is miswired.	• Refer to wiring diagram for the correct wiring.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

5. DRYER STOPS IN CYCLE; QUITS AFTER THE FIRST FEW LOADS; HAS A BURNING SMELL; CYCLES ON MOTOR THERMAL PROTECTOR

POSSIBLE CAUSE	TO CORRECT
Incorrect Voltage.	• Refer to nameplate in door well for correct voltage. • Refer to ***Installation Instructions*** (supplied with dryer) for electrical requirements.
Clothes load too large.	• Remove part of load. A normal washer load is a normal dryer load. Maximum load: dryer cylinder one half full of wet clothes.
Clothes cylinder is binding.	• Check cylinder for binding and “out of round” condition. • Check front and rear bulkheads for warping. • Check support rollers for binding. • Check cylinder seals and glides for wear or damage. • Check for clothes lodged between cylinder baffle and bulkhead.
Broken, loose or incorrect wiring.	• Refer to wiring diagram.
Motor switch functions inoperative. Short in motor winding.	• Refer to *Paragraph 115* to check switch and windings.
Clothes item caught in fan.	• Check fan for obstruction.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

6. DRYER MOTOR RUNS BUT CYLINDER DOES NOT TURN

POSSIBLE CAUSE	TO CORRECT
Motor drive pulley loose.	• Tighten pulley.
Belt not installed on pulley.	• Install belt. Refer to *Figure 55*.
Broken cylinder belt.	• Replace belt.
Clothes cylinder is binding.	• Check cylinder for binding and “out of round” condition. • Check front and rear bulkheads for warping. • Check cylinder rollers for binding. • Check cylinder seals and glides for wear or damage.
Broken, weak or disconnected idler lever spring.	• Replace or reconnect spring. Refer to *Figure 56*.
Belt routed on wrong side of idler lever.	• Reroute belt. Refer to *Figure 55*.
Oil on cylinder.	• Wipe oil from cylinder.
Belt is “inside out.”	• Reinstall belt with ribbed surface against cylinder.
Idler arm is binding.	• Add grease between idler arm and motor mount. • Replace idler arm and bolt if needed.
Dryer is overloaded.	• Remove some laundry from dryer.
Wrong motor.	• Refer to parts manual for correct motor part number.
Wrong belt used on dryer.	• Check belt part number against correct part number in the parts manual. • Replace belt if needed.
Bent idler arm.	• Replace idler arm.

7. DRYER MOTOR DOES NOT STOP

POSSIBLE CAUSE	TO CORRECT
Incorrect wiring to motor switch.	• Refer to wiring diagram.
Motor centrifugal switch sticky or plugged with lint.	• Remove dust or lint and spray with a cleaner and lubricant.
Inoperative door switch.	• Test switch and replace if inoperative.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

8. DRYER HEATING ASSEMBLY DOES NOT HEAT OR BURNER DOES NOT IGNITE

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Use of plastic or thin foil exhaust duct.	• Replace with rigid or semi-rigid metal exhaust duct.
Blown house fuse or tripped circuit breaker.	• Check fuses or circuit breakers. A 240 Volt dryer uses two fuses. Make sure both fuses are good.
Inoperative limit thermostat.	• Test thermostat and replace if inoperative.
Inoperative drive motor switch.	• Test switch and replace if inoperative.
Electric Models: Inoperative heater assembly.	• Test heater assembly and replace if cold Ohms do not read between 9 and 10.5 Ohms.
Electric Models: Inoperative thermal fuse.	• Test thermal fuse and replace if inoperative.
Gas Models: Insufficient gas supply.	• Check gas shut-off valve in dryer and main gas line valve. • Open partially closed gas shut-off valve, or correct low gas pressure.
Gas Models: Inoperative gas valve coils.	• Test coils and replace if inoperative. Refer to *Paragraph 119*.
Gas Models: Inoperative sensor.	• Test sensor and replace if inoperative. Refer to *Paragraph 92, step e.*
Gas Models: Inoperative igniter.	• Test igniter and replace if inoperative. Refer to *Paragraph 121*.
Gas Models: Harness not properly connected to gas controls.	• Check harness connections to gas valve coils, sensor and main harness. • Reconnect as required.
Gas Models: Restricted gas flow in gas orifice.	• Clean out gas orifice.
Inoperative cycling thermostat.	• Test thermostat and replace if inoperative.
Broken, loose, or incorrect wiring.	• Refer to wiring diagram.

9. IGNITER DOES NOT GLOW (Gas Supply Sufficient) – GAS DRYER MODELS

POSSIBLE CAUSE	TO CORRECT
No power to power leads on valve.	• Check thermostats, motor switch, and wiring.
Sensor failed with contacts open.	• Replace sensor.
Igniter broken or open.	• Replace igniter.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

10. BURNER IGNITES AND GOES OUT REPEATEDLY – GAS DRYER MODELS

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system. Weather hood flapper restricted.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Burner heat not holding sensor contacts open.	• Replace sensor, or correct gas supply problem.
Insufficient gas supply.	• Check gas supply and pressure. • Make sure gas shut-off valve is turned on.
Cracked igniter.	• Replace igniter and bracket.
Inoperative or intermittent gas valve coils.	• Check coils and replace appropriate coils. Refer to *Paragraph 119*.

11. IGNITER GLOWS BUT BURNER DOES NOT IGNITE – GAS DRYER MODELS

POSSIBLE CAUSE	TO CORRECT
Sensor failed in closed position.	• Replace sensor.
Open secondary coil or holding coil.	• Replace gas valve (in-warranty), or replace coils (out-of-warranty). Refer to *Paragraph 119*.
Insufficient gas supply.	• Check gas supply and pressure. • Make sure gas shut-off valve is turned on.
Igniter and bracket installed improperly on burner tube assembly.	• Loosen screw and properly position igniter and bracket on burner tube assembly.
Sensor installed improperly on burner housing.	• Loosen screw and properly position the sensor on the burner housing.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

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12. DRYER HEATER ASSEMBLY OR BURNER SHUTS OFF PREMATURELY

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system. Weather hood flapper restricted.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Gas Models: Insufficient gas supply.	• Check main gas line shut-off valve. • Open partially closed gas shut-off valve, or correct low pressure.
Gas Models: Dryer not properly equipped for type of gas used.	• Refer to "Gas Burner Conversion Procedures" supplied in gas burner conversion kit.
Gas Models: Improperly adjusted burner flame.	• Adjust flame. Refer to *Paragraph 112*.
Cycling off on limit thermostat.	• Momentarily connect a jumper wire across thermostat terminals. If heater element heats or burner ignites when jumper wire is connected, refer to *Paragraph 13*.
Gas models: Sensor contact closing	• Replace sensor (*Paragraph 92, step e*) or adjust burner flame. Refer to *Paragraph 112*.
Inoperative cycling thermostat.	• Test thermostat and replace if inoperative.
Broken, loose, or incorrect wiring.	• Refer to wiring diagram.

13. DRYER HEATER ASSEMBLY OR BURNER REPEATEDLY CYCLES OFF ON LIMIT THERMOSTAT

POSSIBLE CAUSE	TO CORRECT
External exhaust system longer or providing greater restriction than recommended.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust system requirements.
Use of plastic or thin foil exhaust duct.	• Replace with rigid or semi-rigid metal exhaust duct.
Clogged lint filter.	• Clean lint filter.
Lint in internal dryer ductwork.	• Disassemble dryer ductwork and clean.
Lint or other obstruction in external exhaust system.	• Disassemble and clean exhaust system.
Hinged damper on exhaust system weather hood not free to open.	• Free hinged damper or replace weather hood.
Limit thermostat cycling at too low a temperature.	• Replace thermostat. Refer to *Paragraph 94*.
Air leak around loading door. (Door not sealing due to damaged seal or inoperative door catch.)	• Replace seal or catch.
Inoperative thermistor.	• Test thermistor and replace if inoperative.
Air leak at blower seal.	• Check and replace seal if necessary.
Air leak at cylinder seal(s).	• Check and replace seal(s) if necessary.
Air leak at front panel seal.	• Check and replace seal if necessary.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

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14. DRYER HEATER ASSEMBLY OR BURNER DOES NOT SHUT OFF

POSSIBLE CAUSE	TO CORRECT
Improper motor switch. (Must be in a heat setting.)	• Test switch and replace if inoperative.
Motor does not stop.	• Refer to *Paragraph 7*.
Incorrect wiring.	• Refer to wiring diagram.
Heater assembly shorted.	• Remove heater assembly and check for short.

15. CLOTHES DO NOT DRY IN DRYER

POSSIBLE CAUSE	TO CORRECT
Heater assembly does not heat or burner does not ignite.	• Refer to *Paragraph 8*.
Too much water in articles being dried.	• Remove excess water.
Laundry load too large.	• Remove part of load. A normal washer load is a normal dryer load. Maximum load: Dryer cylinder one half full of wet clothes.
Laundry load too small.	• Add one or two bath towels to load.
Excessive lint on lint filter.	• Clean lint filter.
Improper or inadequate exhaust system.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Heater assembly or burner shuts off prematurely.	• Refer to *Paragraph 12*.
Gas Models: Gas line pressure too high or too low.	• If Natural Gas line pressure to dryer exceeds 8 inch water column pressure, or is lower than 4 inch water column, ask Gas Company to correct.
Improper belt installation (Low RPM).	• Check for proper installation. Refer to *Figure 55*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

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16. CLOTHES ARE TOO HOT WHEN REMOVED FROM DRYER

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Clothes are removed from dryer before cycle has completed.	• Allow the dryer to complete the cycle through the cool-down to the OFF position.
Inoperative cycling thermostat.	• Test cycling thermostat and replace if inoperative.
Inoperative seals (air leaks).	• Check and replace any inoperative seals in the following areas: 1. Seal between loading door and front panel. 2. Seal between front panel and front bulkhead. 3. Seal between blower cover and air duct. 4. Seal between cylinder and front or rear bulkhead. 5. Gap between air duct and filter mounting.

17. EXCESSIVE CHATTERING OR VIBRATING NOISE IN DRYER

POSSIBLE CAUSE	TO CORRECT
Inoperative idler spring.	• Remove lower access panel. Set dryer to normal cycle and allow it to heat to operating temperature. If the belt vibrates as it rotates around the cylinder, the idler arm is making the noise. Replace the idler spring. Refer to *Figure 56*.

18. EXCESSIVE HUMMING OR WHISTLING NOISE IN DRYER

POSSIBLE CAUSE	TO CORRECT
Inoperative blower housing.	• If the abnormal operating noise is loudest at the vent exit, the problem is originating from the blower housing. Replace the current housing and cover. Refer to *Figure 54*.

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Troubleshooting
NetMaster and MDC Models – Washer Control

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

19. ERROR CODE LISTING

E:df	Drive failure.	This error code is generated by the motor control and transmitted to the master control. Several conditions can cause this code; motor unplugged, motor failure, tachometer circuit open, inner basket locked up. This is a fatal error. Machine must be unpowered to reset.
E:SP	Serial communication error.	This error code occurs when the master control cannot communicate with the motor control. The master control will try to reset the motor control by powering it down. It will try resetting three times before setting the error code. Common causes: fuse blown on motor control board, wiring to motor control incorrect. This is a fatal error.
E:FL	Fill error.	This error code occurs if the pressure switch fails to open in 30 minutes in any fill/agitate cycle. This is a fatal error.
door	Door Open Indicator.	This error code occurs when the door is not closed at the start of an active cycle. If the door is closed, check for wiring or door switches.
E:do	Door open error.	This error code occurs if the control detects the door open and door locked inputs high at the same time. You can get this error if you jerk on the door when it is locked or as it is about to lock. This is a fatal error.
E:dL	Door lock error.	This error code occurs if the door does not lock in 15 seconds or unlock in 3 minutes at the end of the cycle. This is a non-fatal error. If the door locks or unlocks while E:dL is displayed it will clear the error condition. Also if the door is opened after failing to lock it will clear the display.
OP	Open thermistor error.	This error code occurs if the thermistor circuit opens while heating.
SH	Shorted thermistor error.	This error code occurs if the thermistor circuit is shorted while heating.

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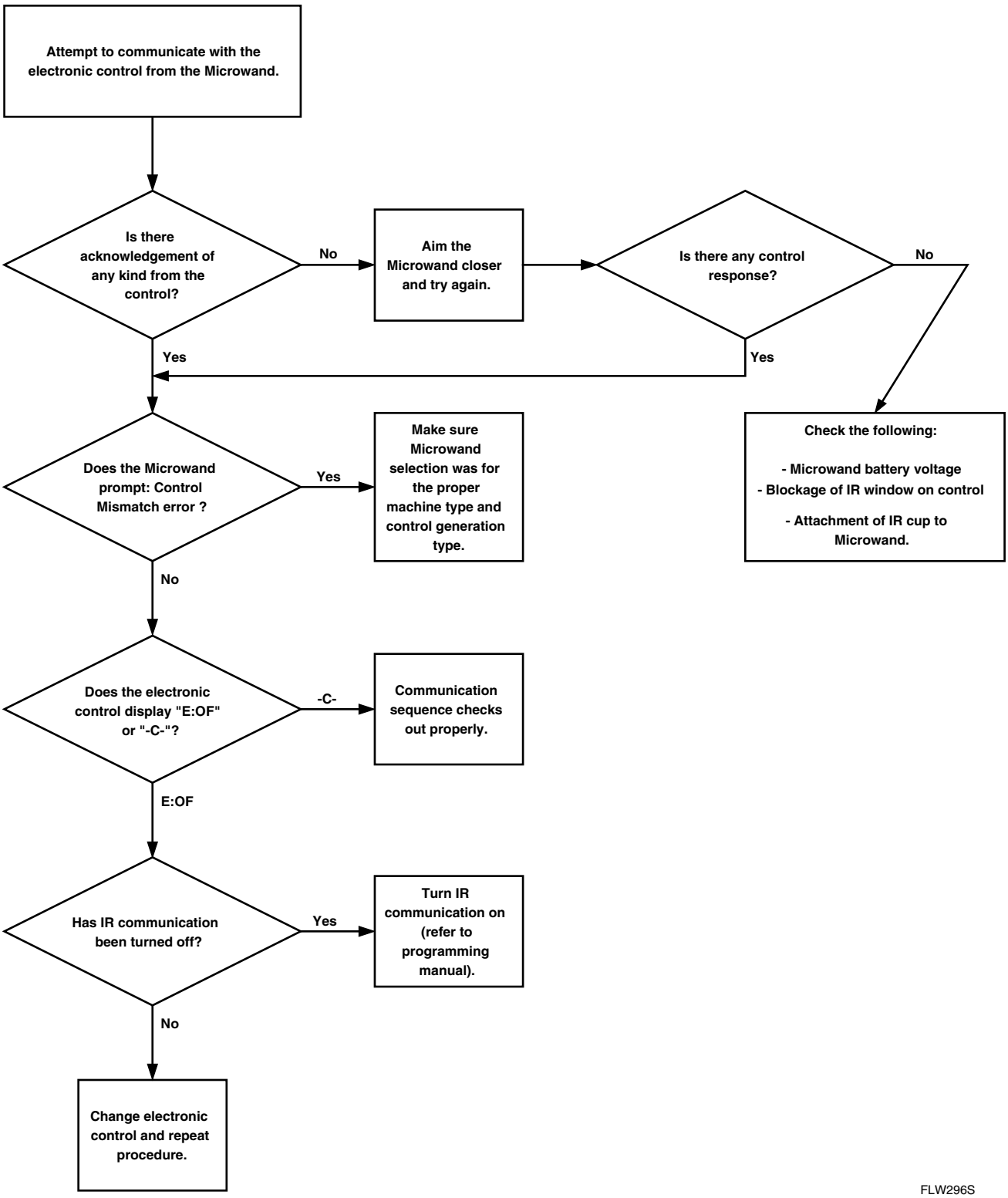
20. MICROWAND DOES NOT COMMUNICATE WITH WASHER CONTROL NetMaster Models Only


Attempt to communicate with the electronic control from the Microwand.
Is there acknowledgement of any kind from the control?
No
Aim the Microwand closer and try again.
Is there any control response?
No
Yes
Yes
Does the Microwand prompt: Control Mismatch error ?
Yes
Make sure Microwand selection was for the proper machine type and control generation type.
Check the following:
- Microwand battery voltage
- Blockage of IR window on control
- Attachment of IR cup to Microwand.
No
Does the electronic control display "E:OF" or "-C-"?
-C-
Communication sequence checks out properly.
E:OF
Has IR communication been turned off?
Yes
Turn IR communication on (refer to programming manual).
No
Change electronic control and repeat procedure.
FLW296S

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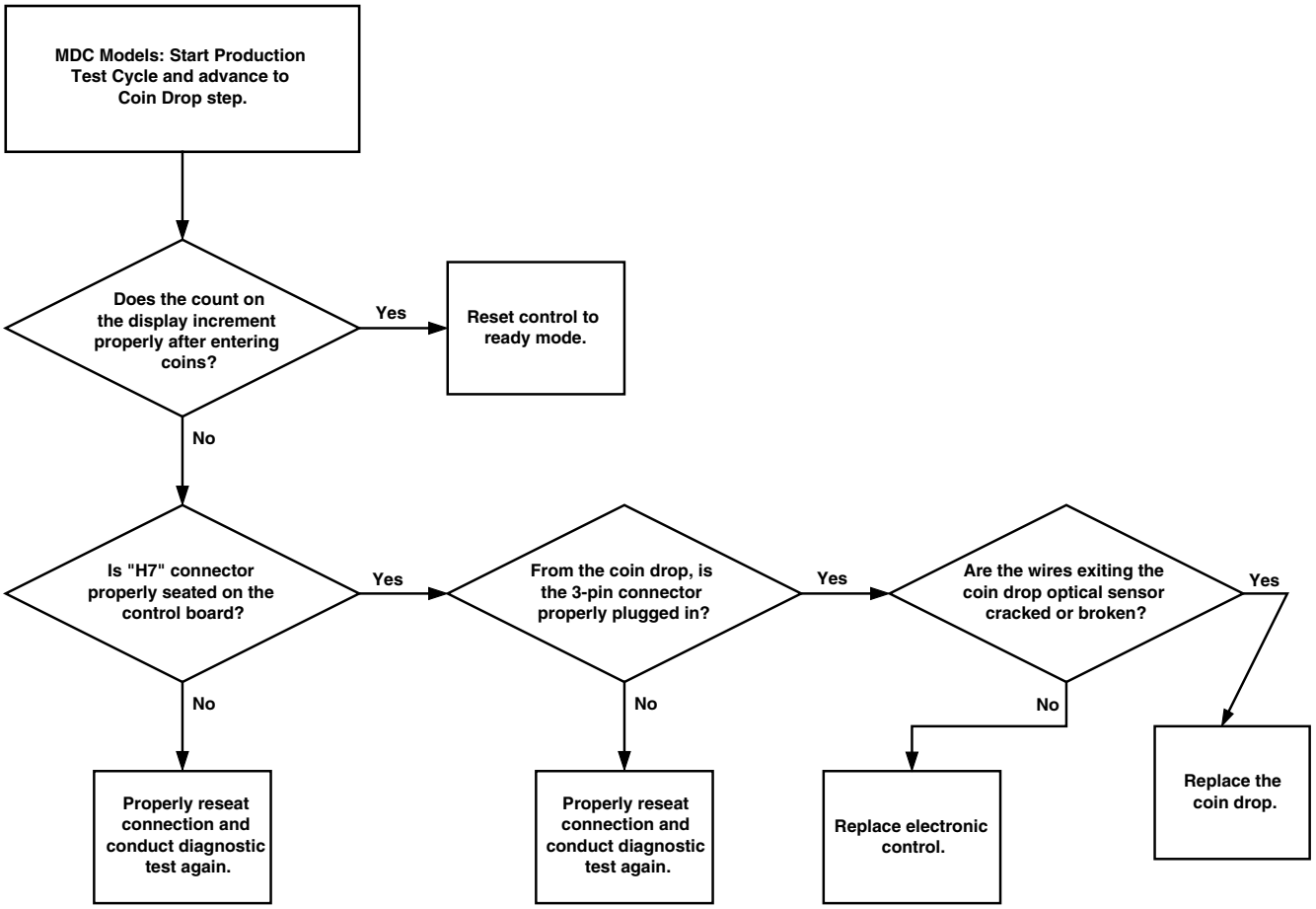
21. COINS IGNORED WHEN ENTERED IN WASHER COIN DROP


MDC Models: Start Production Test Cycle and advance to Coin Drop step.
Does the count on the display increment properly after entering coins?
Yes
Reset control to ready mode.
No
Is "H7" connector properly seated on the control board?
Yes
From the coin drop, is the 3-pin connector properly plugged in?
Yes
Are the wires exiting the coin drop optical sensor cracked or broken?
Yes
No
No
No
Properly reseat connection and conduct diagnostic test again.
Properly reseat connection and conduct diagnostic test again.
Replace electronic control.
Replace the coin drop.

FLW1704S

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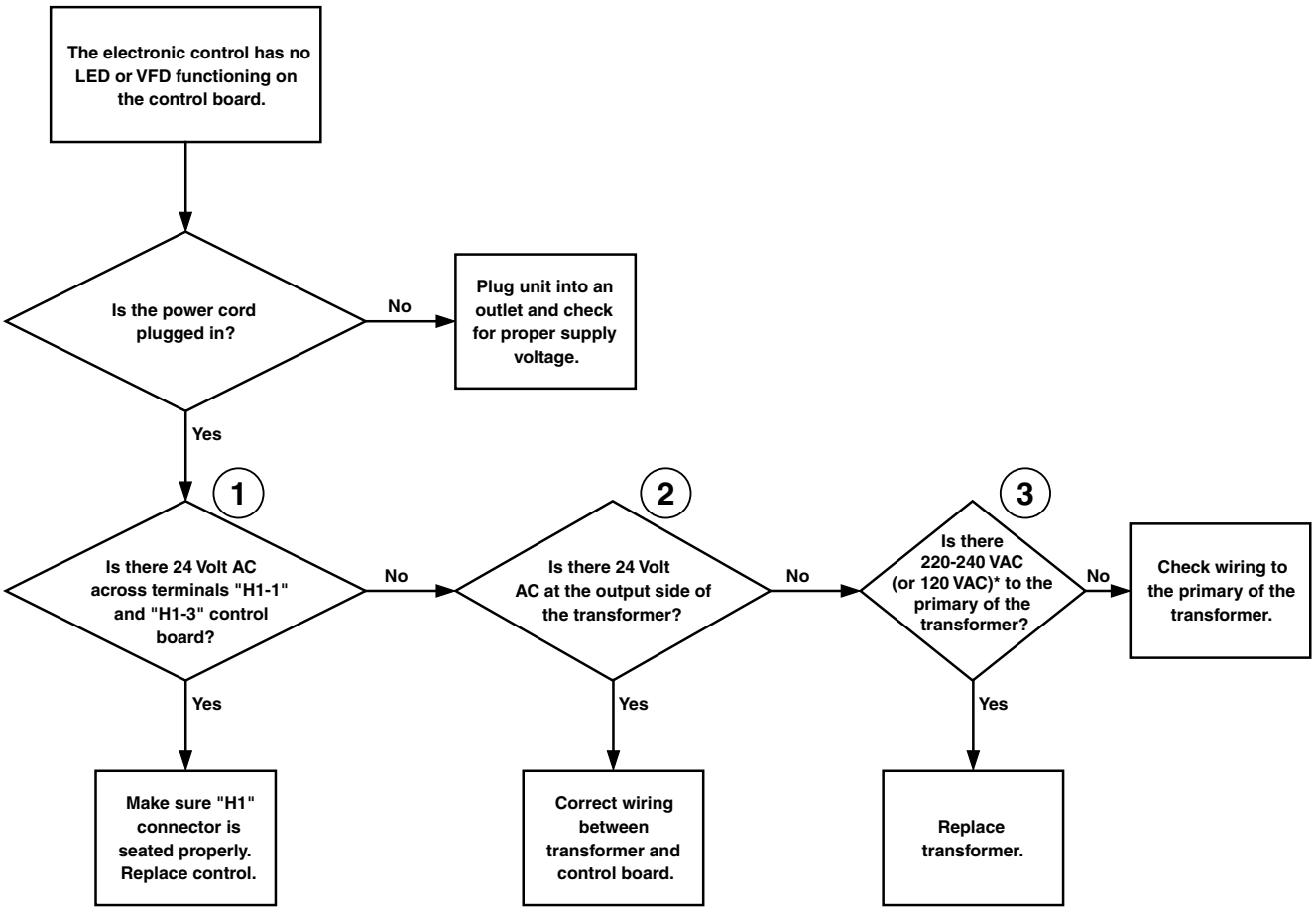
22. NO VISIBLE DISPLAY ON WASHER CONTROL


The electronic control has no LED or VFD functioning on the control board.
Is the power cord plugged in?
No
Plug unit into an outlet and check for proper supply voltage.
Yes
1
Is there 24 Volt AC across terminals "H1-1" and "H1-3" control board?
No
2
Is there 24 Volt AC at the output side of the transformer?
No
3
Is there 220-240 VAC (or 120 VAC)* to the primary of the transformer?
No
Check wiring to the primary of the transformer.
Yes
Make sure "H1" connector is seated properly. Replace control.
Yes
Correct wiring between transformer and control board.
Yes
Replace transformer.

FLW1695S

*Refer to machine serial plate for correct voltage.

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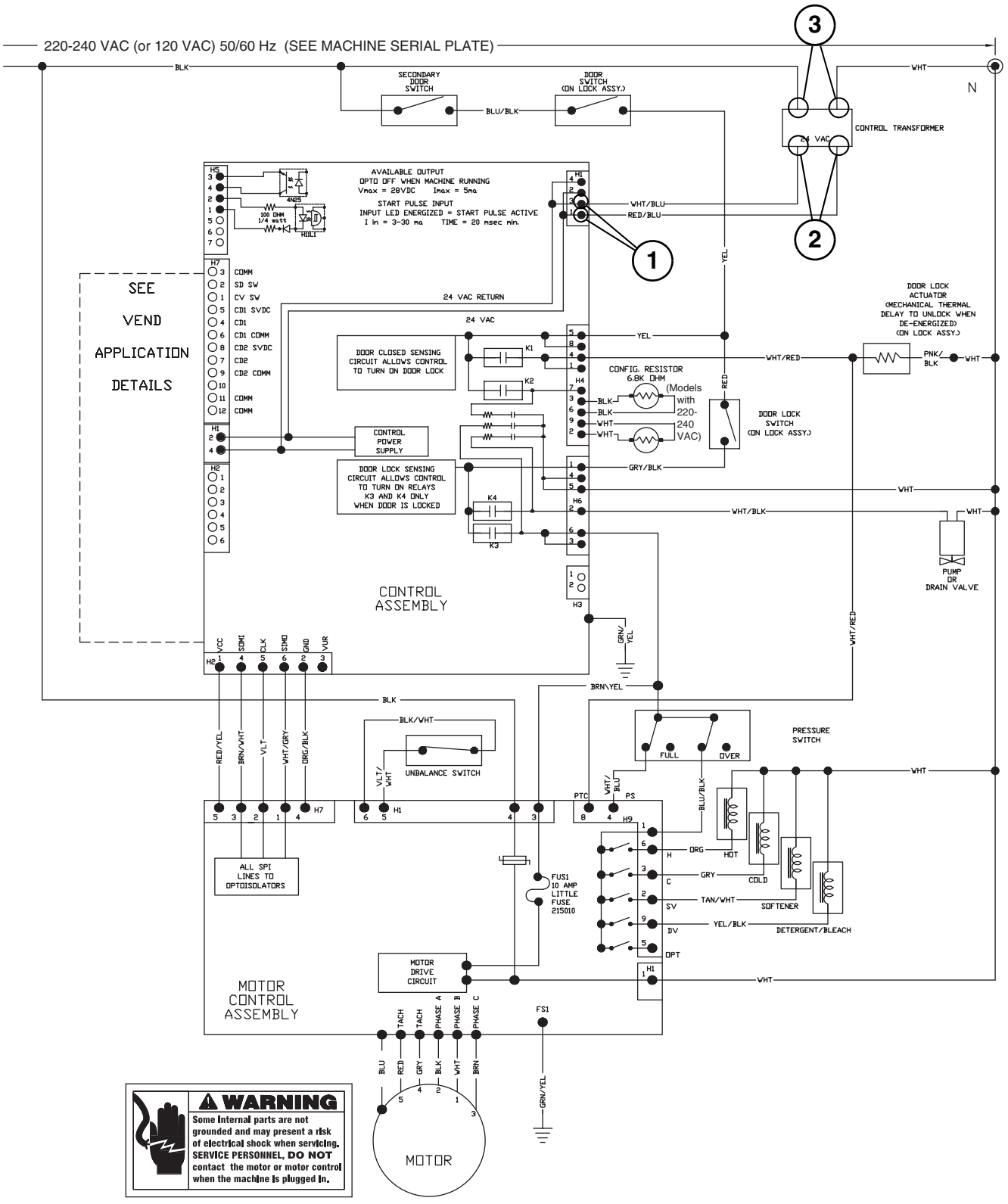
NO VISIBLE DISPLAY ON WASHER CONTROL



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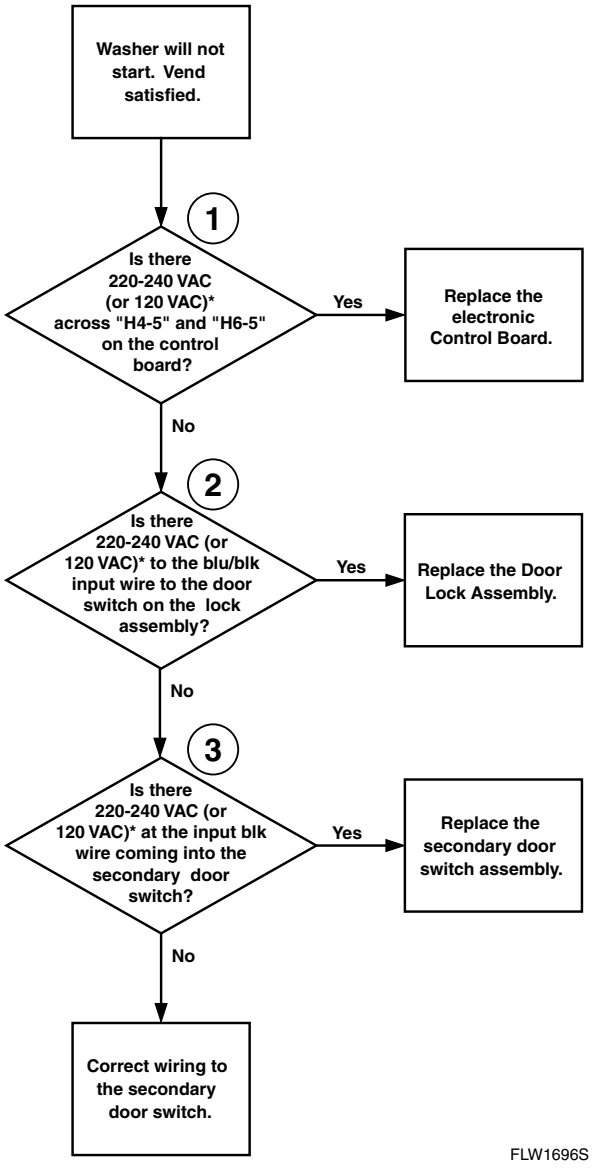
23. WASHER WILL NOT START – "DOOR" DISPLAYED


Washer will not start. Vend satisfied.
1
Is there 220-240 VAC (or 120 VAC)* across "H4-5" and "H6-5" on the control board?
Yes
Replace the electronic Control Board.
No
2
Is there 220-240 VAC (or 120 VAC)* to the blu/blk input wire to the door switch on the lock assembly?
Yes
Replace the Door Lock Assembly.
No
3
Is there 220-240 VAC (or 120 VAC)* at the input blk wire coming into the secondary door switch?
Yes
Replace the secondary door switch assembly.
No
Correct wiring to the secondary door switch.
FLW1696S

*Refer to machine serial plate for correct voltage.

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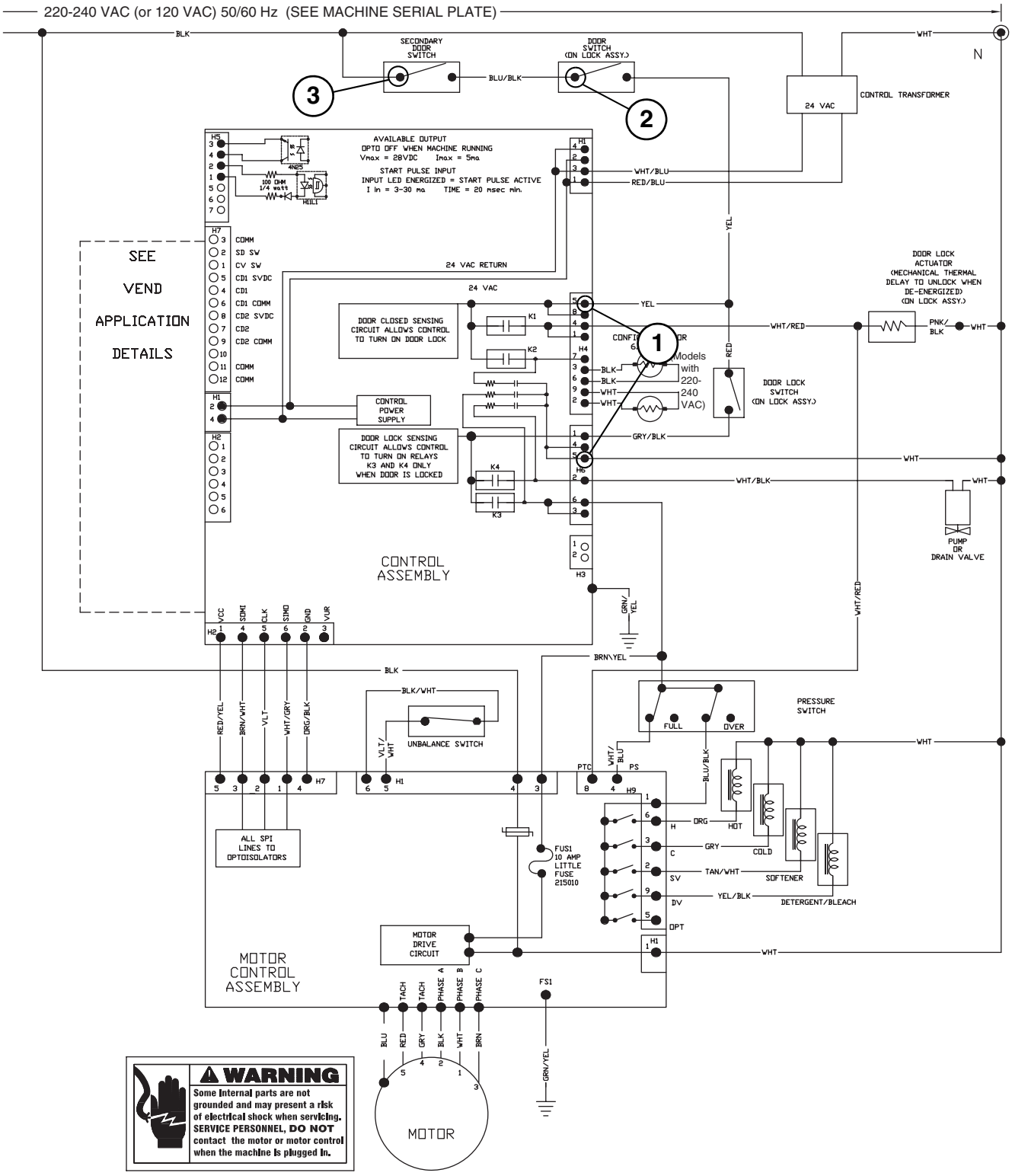
WASHER WILL NOT START – "DOOR" DISPLAYED



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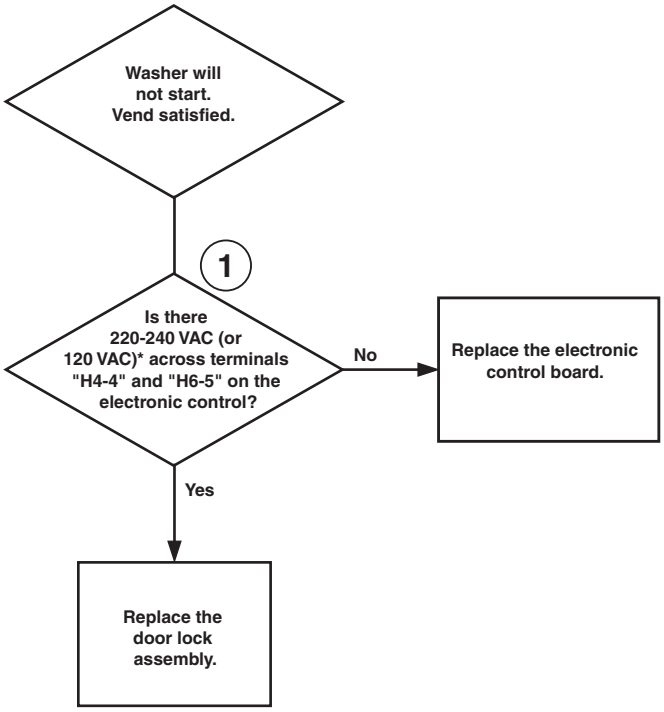
24. WASHER WILL NOT START – E:DL ON DISPLAY


Washer will not start. Vend satisfied.
1
Is there 220-240 VAC (or 120 VAC)* across terminals "H4-4" and "H6-5" on the electronic control?
No
Replace the electronic control board.
Yes
Replace the door lock assembly.

*Refer to machine serial plate for correct voltage.

FLW1697S

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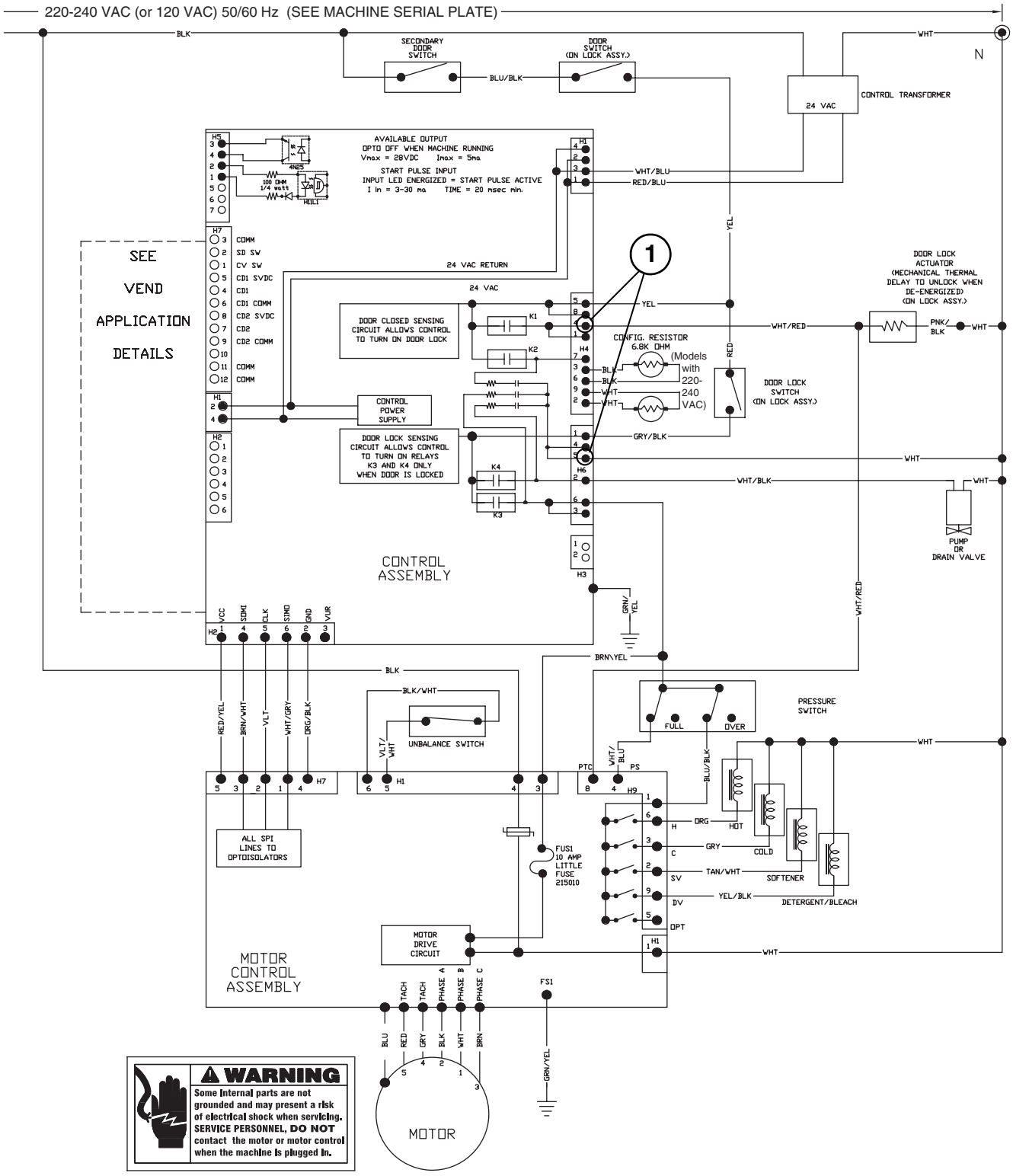
WASHER WILL NOT START – E:DL ON DISPLAY



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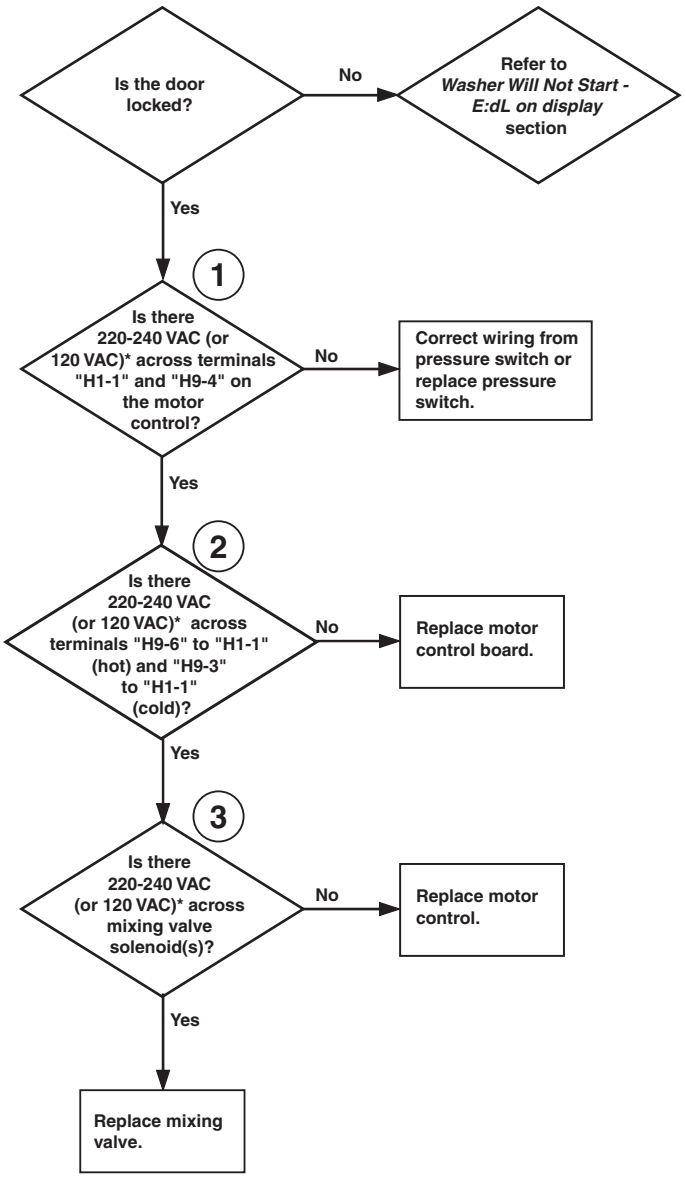
25. WASHER WILL NOT FILL (MACHINE EMPTY, NO E:SP ON DISPLAY)


Is the door locked?
No
Refer to *Washer Will Not Start - E:dL on display* section
Yes
1
Is there 220-240 VAC (or 120 VAC)* across terminals "H1-1" and "H9-4" on the motor control?
No
Correct wiring from pressure switch or replace pressure switch.
Yes
2
Is there 220-240 VAC (or 120 VAC)* across terminals "H9-6" to "H1-1" (hot) and "H9-3" to "H1-1" (cold)?
No
Replace motor control board.
Yes
3
Is there 220-240 VAC (or 120 VAC)* across mixing valve solenoid(s)?
No
Replace motor control.
Yes
Replace mixing valve.

*Refer to machine serial plate for correct voltage.

FLW1698S

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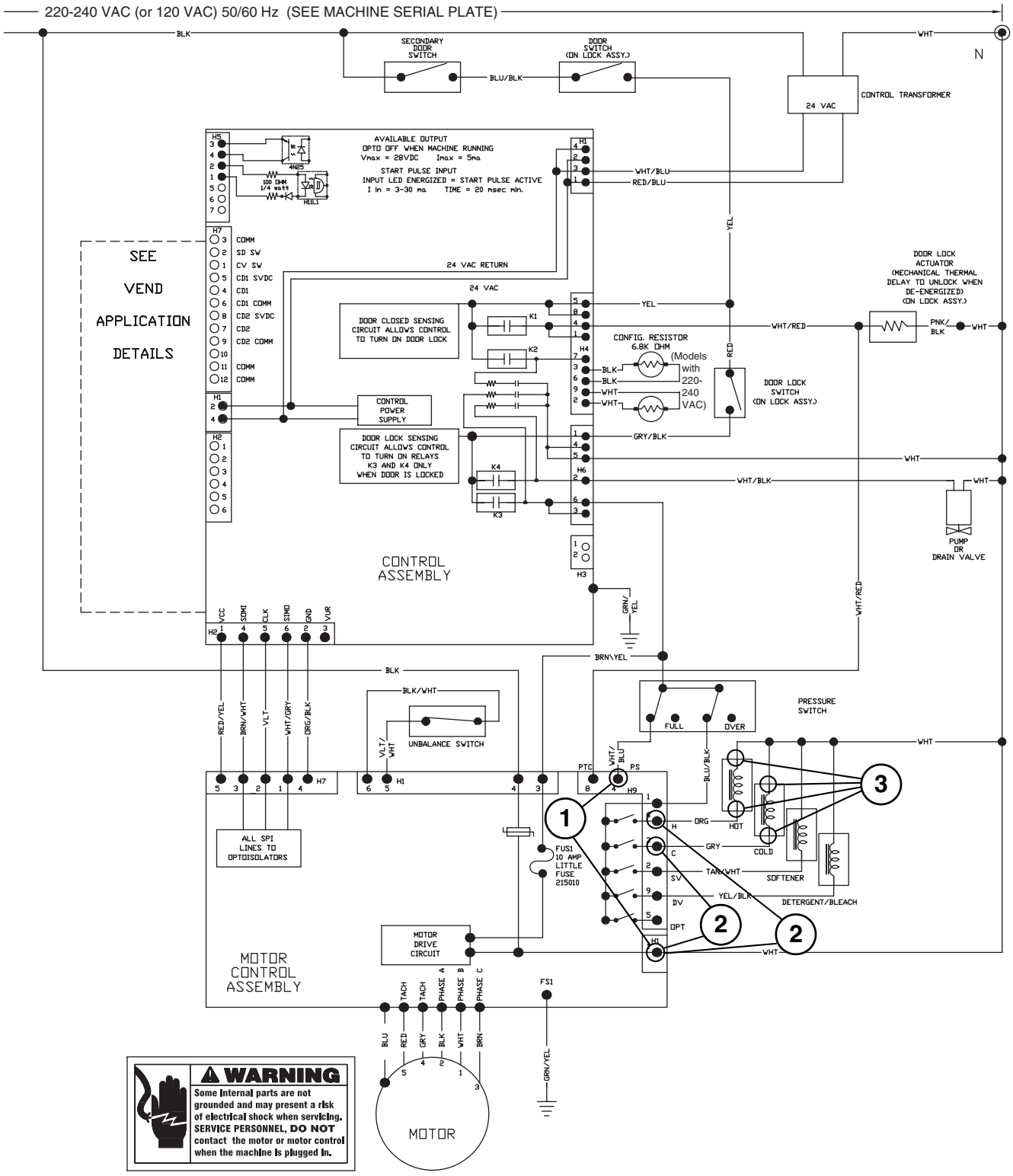
WASHER WILL NOT FILL (MACHINE EMPTY, NO E:SP ON DISPLAY)



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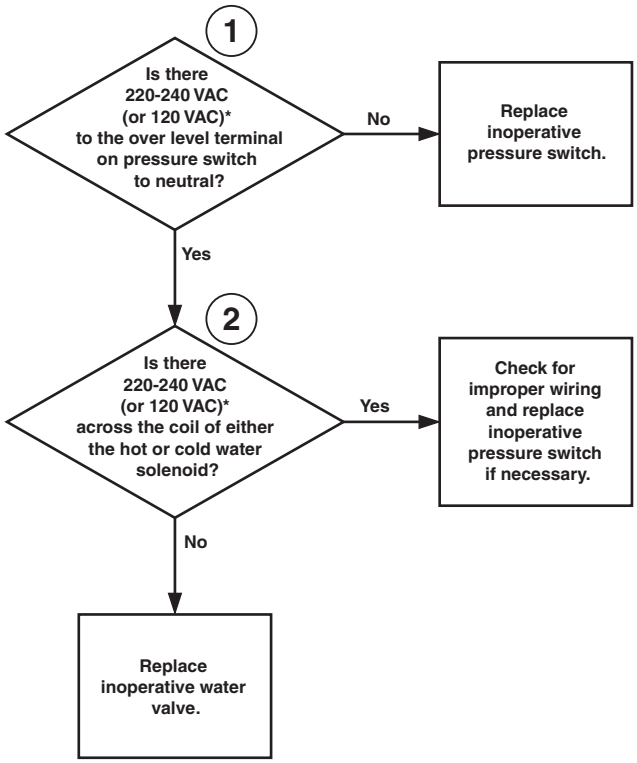
26. WASHER OVERFLOWS


1
Is there 220-240 VAC (or 120 VAC)* to the over level terminal on pressure switch to neutral?
No
Replace inoperative pressure switch.
Yes
2
Is there 220-240 VAC (or 120 VAC)* across the coil of either the hot or cold water solenoid?
Yes
Check for improper wiring and replace inoperative pressure switch if necessary.
No
Replace inoperative water valve.

*Refer to machine serial plate for correct voltage.

FLW1699S

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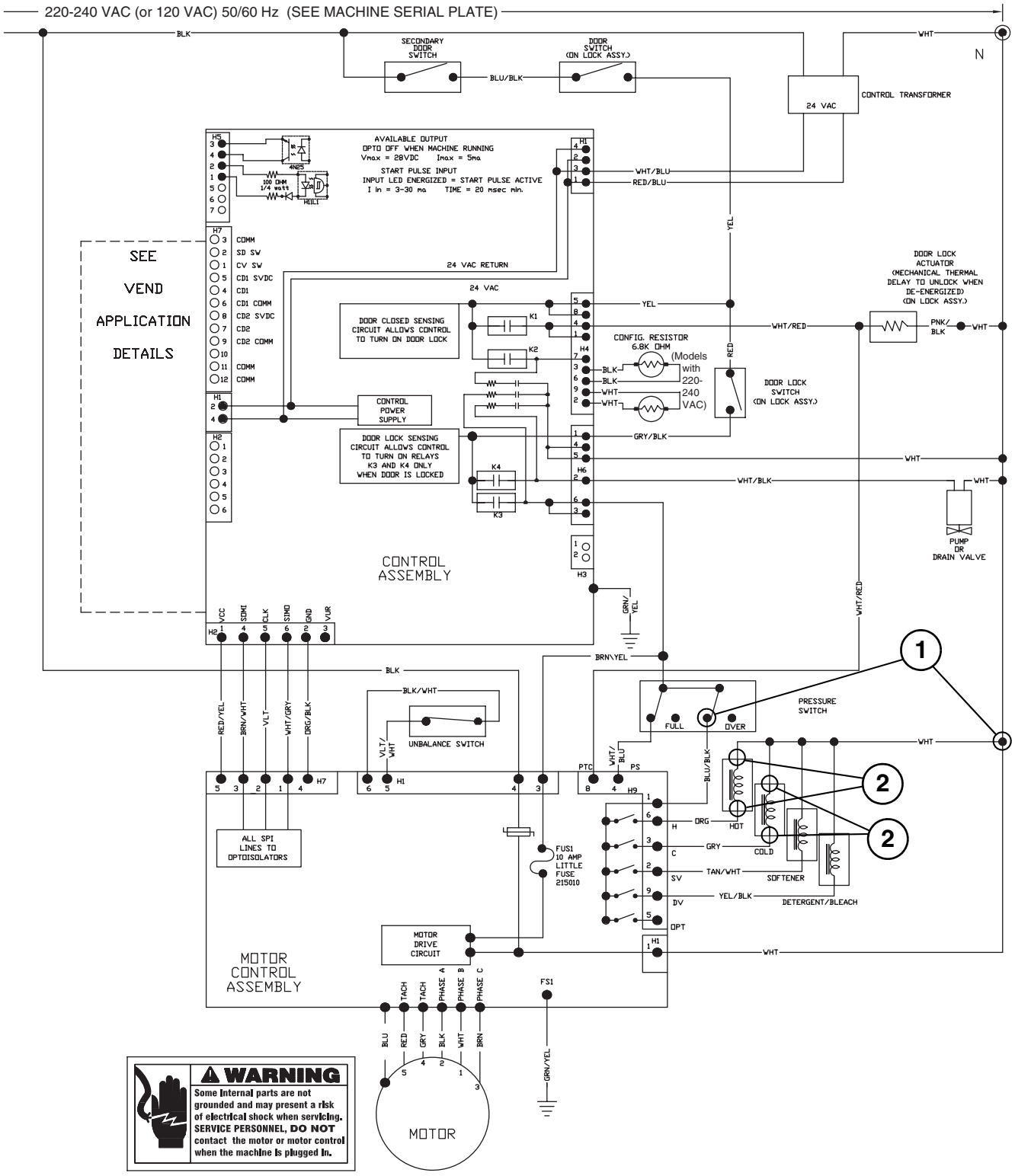
WASHER OVERFLOWS



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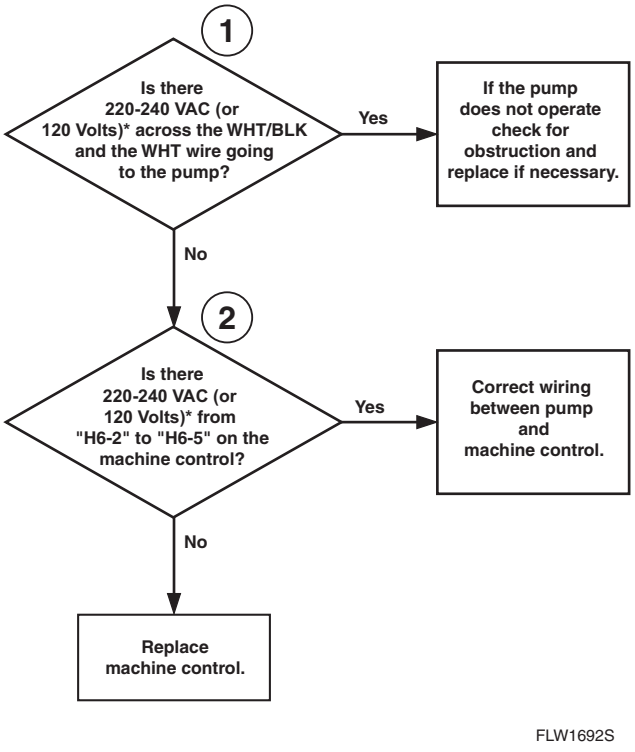
27. WASHER PUMP DOES NOT OPERATE

NOTE: Check at beginning of spin/drain portion of cycle.


1
Is there 220-240 VAC (or 120 Volts)* across the WHT/BLK and the WHT wire going to the pump?
Yes
If the pump does not operate check for obstruction and replace if necessary.
No
2
Is there 220-240 VAC (or 120 Volts)* from "H6-2" to "H6-5" on the machine control?
Yes
Correct wiring between pump and machine control.
No
Replace machine control.
FLW1692S

*Refer to machine serial plate for correct voltage.

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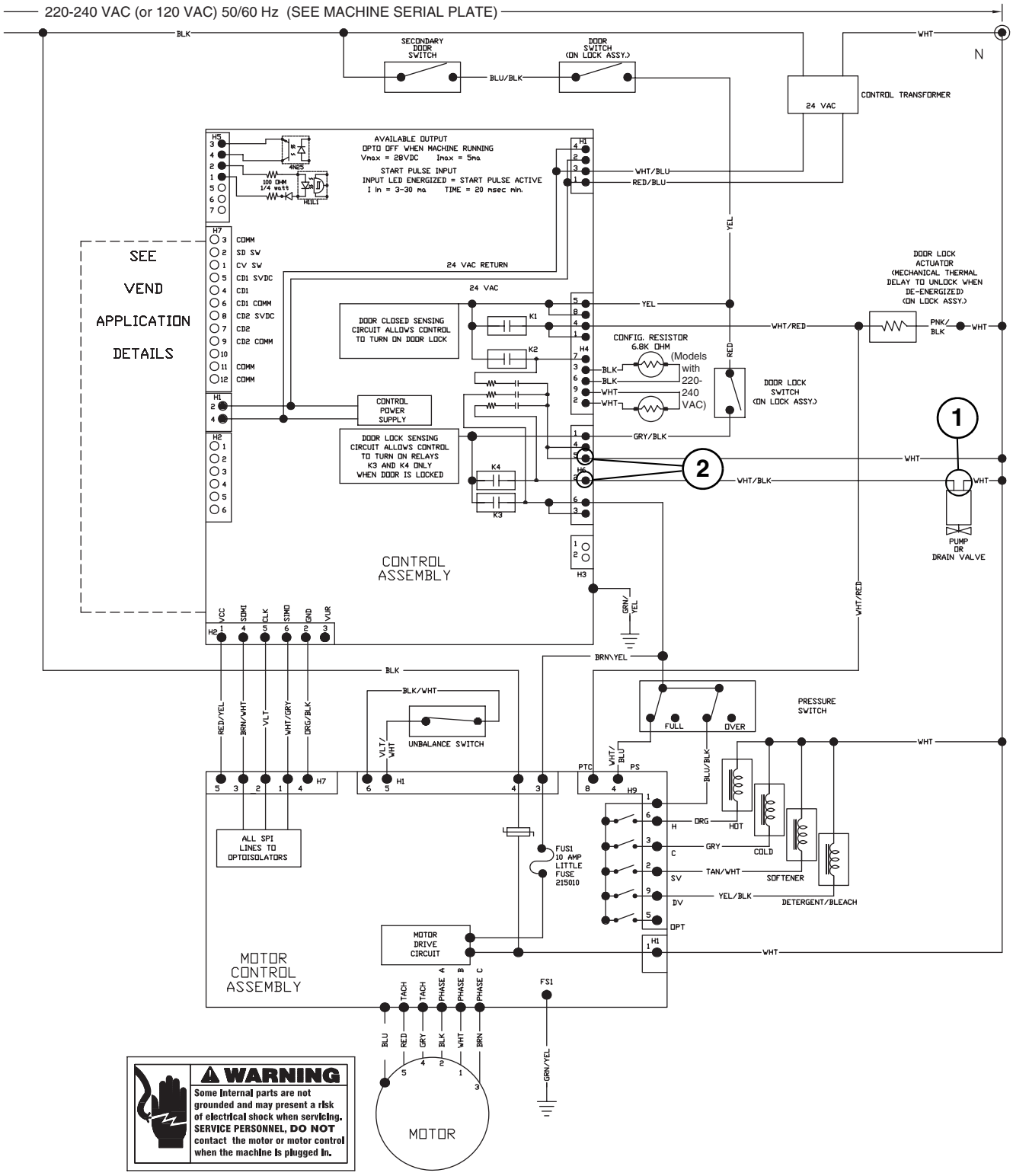
WASHER PUMP DOES NOT OPERATE



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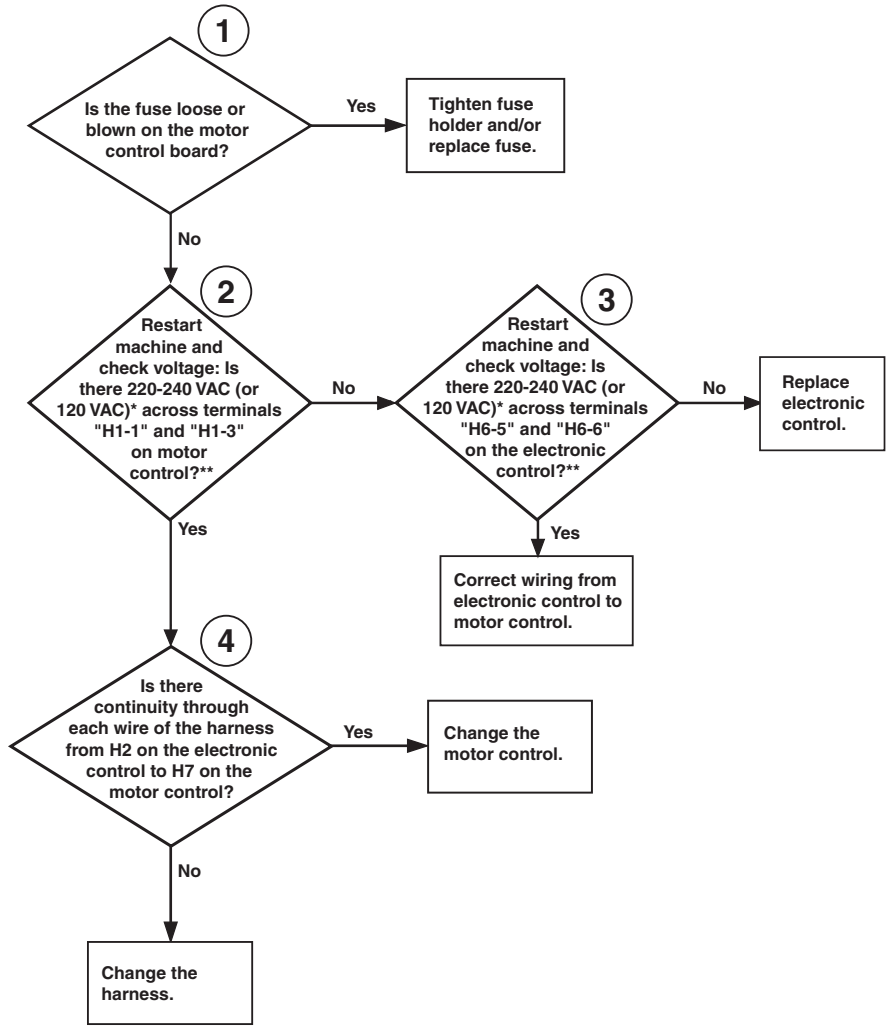
28. SERIAL COMMUNICATION ERROR (E:SP ON WASHER DISPLAY)


1
Is the fuse loose or blown on the motor control board?
Yes
Tighten fuse holder and/or replace fuse.
No
2
Restart machine and check voltage: Is there 220-240 VAC (or 120 VAC)* across terminals "H1-1" and "H1-3" on motor control?**
No
3
Restart machine and check voltage: Is there 220-240 VAC (or 120 VAC)* across terminals "H6-5" and "H6-6" on the electronic control?**
No
Replace electronic control.
Yes
Correct wiring from electronic control to motor control.
Yes
4
Is there continuity through each wire of the harness from H2 on the electronic control to H7 on the motor control?
Yes
Change the motor control.
No
Change the harness.

***Refer to machine serial plate for correct voltage.**

****NOTE: Machine must be restarted to check voltage. Voltage will be intermittently present during first 15 seconds until E:SP is displayed.**

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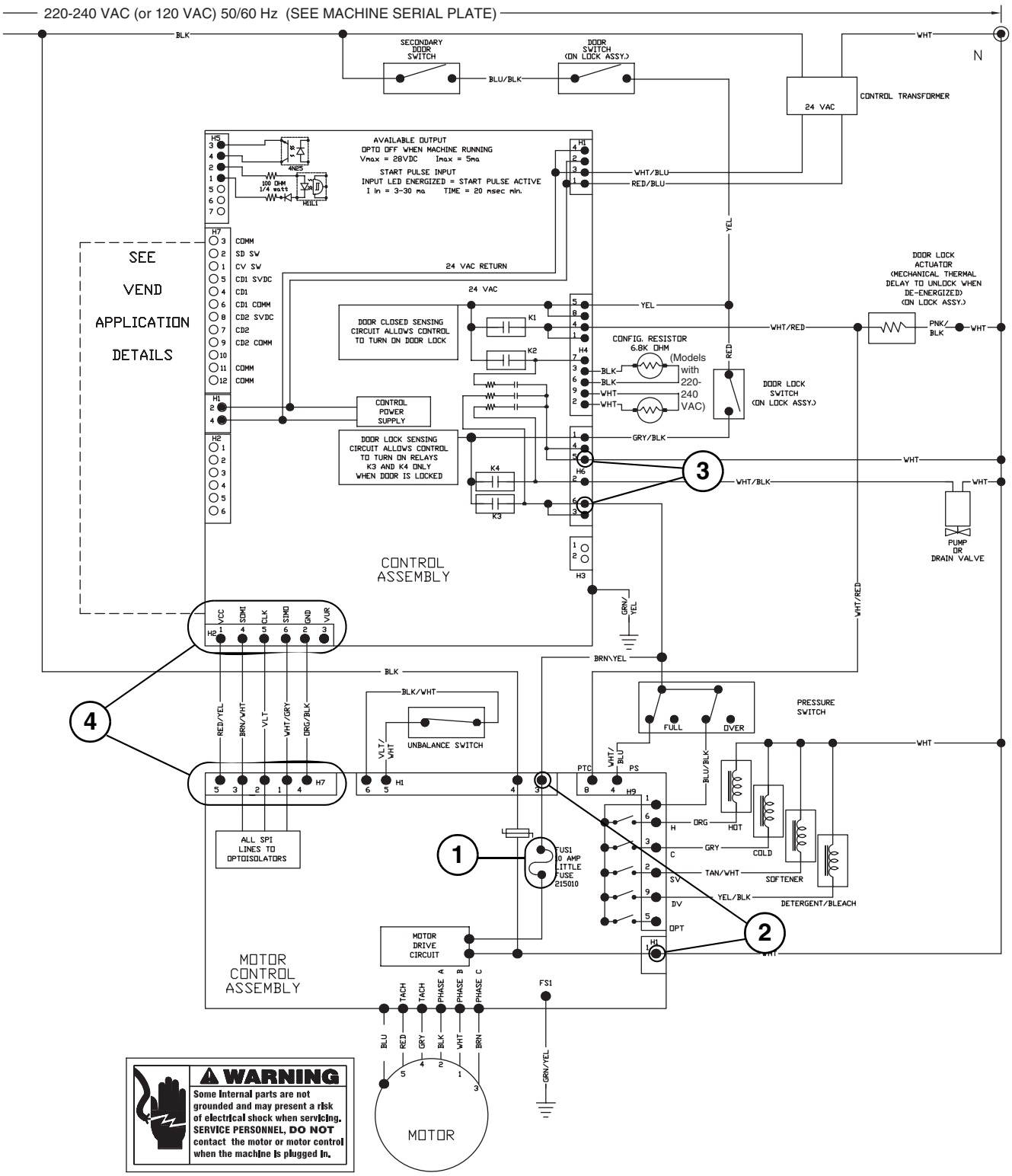
SERIAL COMMUNICATION ERROR (E:SP ON WASHER DISPLAY)



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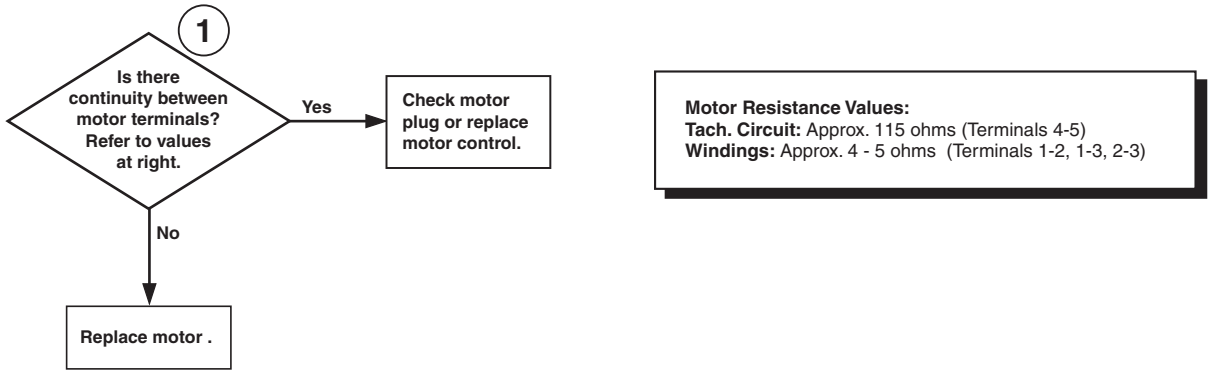
29. WASHER MOTOR DOES NOT RUN (E:DF ON DISPLAY)


1
Is there continuity between motor terminals? Refer to values at right.
Yes
Check motor plug or replace motor control.
No
Replace motor .
Motor Resistance Values:
Tach. Circuit: Approx. 115 ohms (Terminals 4-5)
Windings: Approx. 4 - 5 ohms (Terminals 1-2, 1-3, 2-3)

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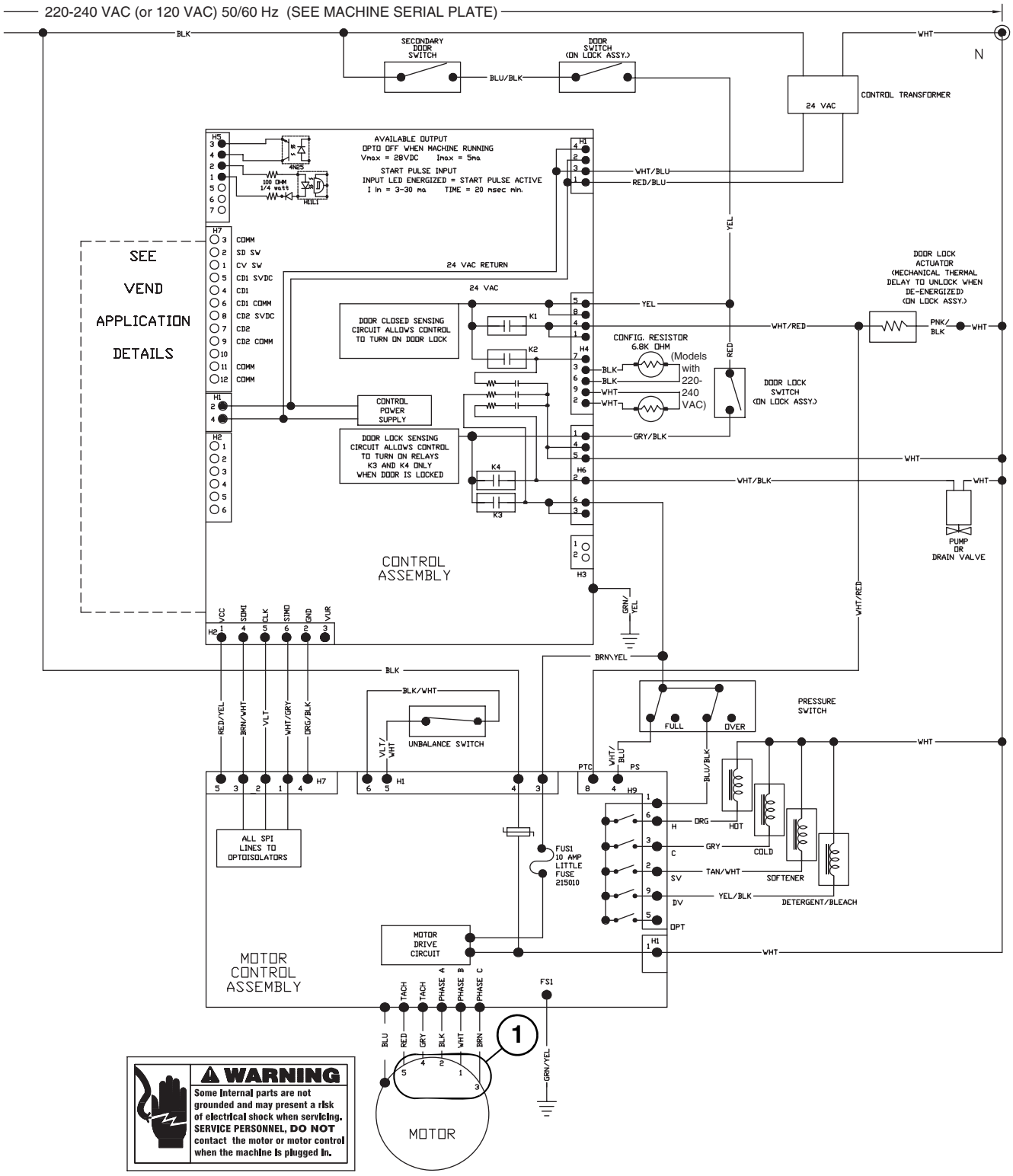
WASHER MOTOR DOES NOT RUN (E:DF ON DISPLAY)



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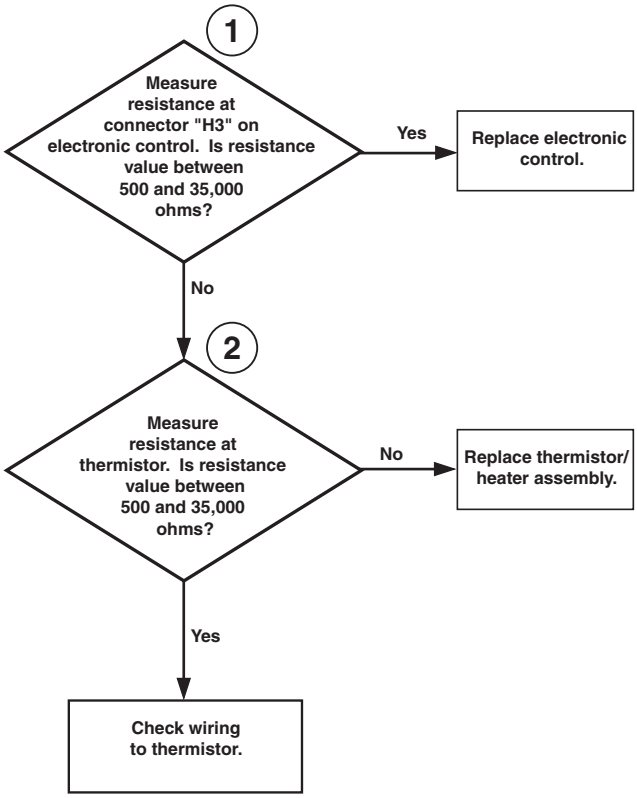
30. WASHER WILL NOT HEAT (“OP” OR “SH” DISPLAYED)


1
Measure resistance at connector "H3" on electronic control. Is resistance value between 500 and 35,000 ohms?
Yes
Replace electronic control.
No
2
Measure resistance at thermistor. Is resistance value between 500 and 35,000 ohms?
No
Replace thermistor/ heater assembly.
Yes
Check wiring to thermistor.

FLW1705S

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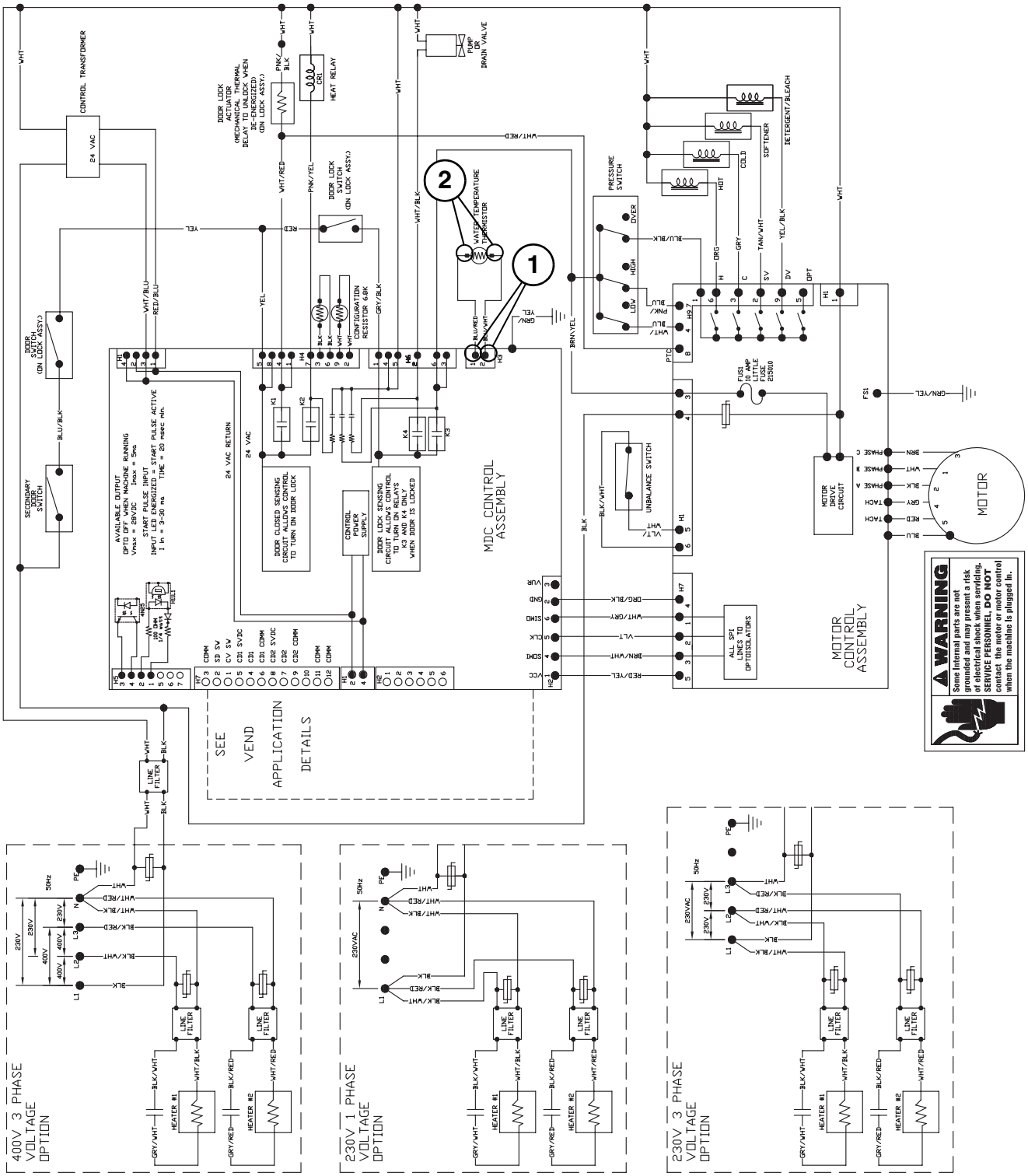
WASHER WILL NOT HEAT (“OP” OR “SH” DISPLAYED)


MDC CONTROL ASSEMBLY
MOTOR CONTROL ASSEMBLY
MOTOR
SEE VEND APPLICATION DETAILS
400V 3 PHASE VOLTAGE OPTION
230V 1 PHASE VOLTAGE OPTION
230V 3 PHASE VOLTAGE OPTION
HEATER #1
HEATER #2
WATER TEMPERATURE THERMISTOR
PRESSURE SWITCH
HEAT RELAY
CONTROL TRANSFORMER
UNBALANCE SWITCH
WARNING
Some internal parts are not grounded and may present a risk of electrical shock when servicing. SERVICE PERSONNEL DO NOT contact the motor or motor control when the machine is plugged in.

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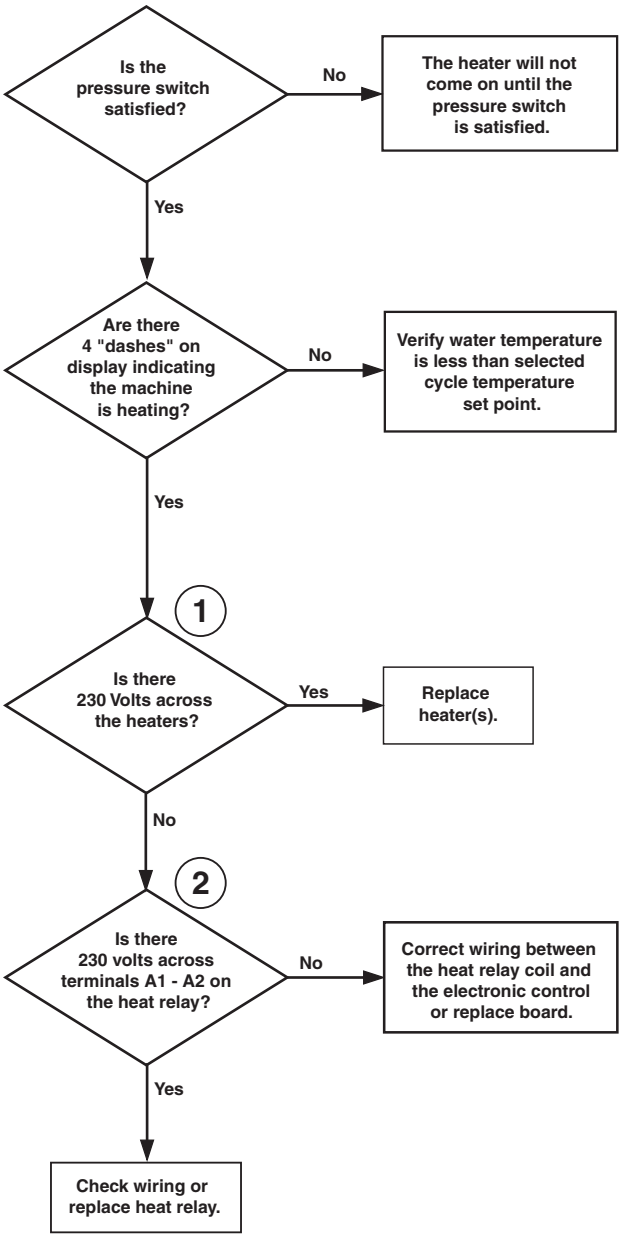
31. WASHER WILL NOT HEAT (MODELS EQUIPPED WITH HEATER) (3 PHASE HEATER MACHINES ONLY)


Is the pressure switch satisfied?
No
The heater will not come on until the pressure switch is satisfied.
Yes
Are there 4 "dashes" on display indicating the machine is heating?
No
Verify water temperature is less than selected cycle temperature set point.
Yes
1
Is there 230 Volts across the heaters?
Yes
Replace heater(s).
No
2
Is there 230 volts across terminals A1 - A2 on the heat relay?
No
Correct wiring between the heat relay coil and the electronic control or replace board.
Yes
Check wiring or replace heat relay.

FLW1703S

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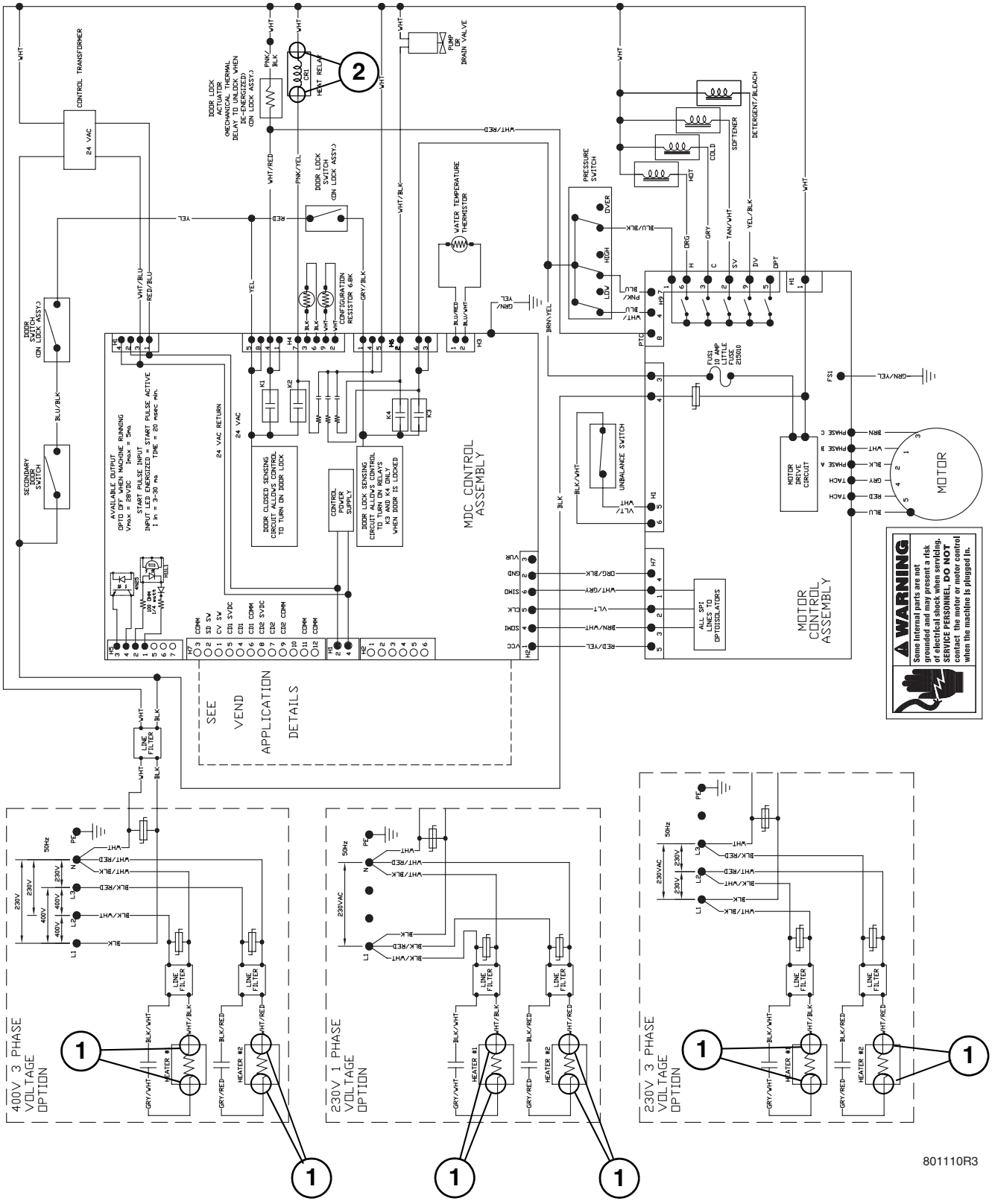
WASHER WILL NOT HEAT (MODELS EQUIPPED WITH HEATER)
(3 PHASE HEATER MACHINES ONLY)


MDC CONTROL ASSEMBLY
MOTOR CONTROL ASSEMBLY
SEE VEND APPLICATION DETAILS
MOTOR
WARNING
Some internal parts are not grounded and may present a risk of electrical shock when servicing. SERVICE PERSONNEL, DO NOT contact the motor or motor control when the machine is plugged in.
400V 3 PHASE VOLTAGE OPTION
230V 1 PHASE VOLTAGE OPTION
230V 3 PHASE VOLTAGE OPTION
801110R3

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Notes

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Troubleshooting
NetMaster Models – Dryer Control

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

32. ERROR CODE LISTING

Display	Description	Cause/ Corrective Action
EI:00	General Communications Error	Communication problem. Re-aim Micro-wand and try again.
EI:01	Bad Transmission	Communication problem. Re-aim Micro-wand and try again.
EI:02	Device Timeout	Communication problem. Re-aim Micro-wand and try again.
EI:03	Invalid Command Code	Wrong machine type. Before downloading, ensure data is for current machine type.
EI:04	Expecting Upload Request	Communication problem. Re-aim Micro-wand and try again.
EI:05	Invalid or Out-of-Range Data	Wrong machine type. Before downloading, ensure data is for current machine type.
EI:06	Invalid Data Code	Wrong machine type. Before downloading, ensure data is for current machine type.
EI:07	Error Writing to RTC	Control failure. Control may need to be replaced.
EI:08	Error Writing to EEPROM	Control failure. Control may need to be replaced.
EI:09	CRC-16 Error	Communication problem. Re-aim Micro-wand and try again.
EI:0A	Invalid Machine Type	Wrong machine type. Before downloading, ensure data is for current machine type.
EI:0F	Invalid Wakeup or IR Disabled	Communication problem or IR is disabled. Manually enable IR on control/Re-aim Micro-wand and try again.
EC:00	General Communication Error	Communication problem. Try card again.
EC:02	Timeout Error	Communication problem. Try card again.
EC:03	Invalid Command Code	Wrong machine type. Before downloading, ensure data is for current machine type.
EC:05	Invalid or Out-of-Range Data	Wrong machine type. Before downloading, ensure data is for current machine type.
EC:06	Invalid Data Code	Wrong machine type. Before downloading, ensure data is for current machine type.
EC:09	Corrupted Data Error	Communication error. Try card again.
EC:0A	Invalid Machine Type	Wrong machine type. Before downloading, ensure data is for current machine type.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

Display	Description	Cause/ Corrective Action
EC:19	No Card Reader Communication	Communication problem. Power down, power up and try again. If error persists, control or reader is bad.
EC:20	Unreadable Card	Bad card/ dirty contact. Clean chip on card or card reader contacts. Try card again. If error persists, card may be bad.
EC:21	Security ID Mismatch	Wrong card. Use card with correct security code.
EC:22	Site Code Mismatch	Wrong card. Use card with correct site code.
EC:23	Card Maximum Value Exceeded	Value on card over max. Use a card which does not exceed maximum value.
EC:24	Insufficient Memory on Card	Card memory is full. Download card contents to PC and clear card for re-use.
EC:25	Card Reader Malfunction	Bad Card Reader. Card Reader may need to be replaced.
EC:26	Card Write Error	Try card again. If error persists, card may be bad.
EC:27	Diagnostic Test Card Write Failure	Bad Card Reader. Card Reader may need to be replaced.
EC:28	Diagnostic Test Card Read Failure	Bad Card Reader. Card Reader may need to be replaced.
EC:29	Diagnostic Test Memory Test Failure	Bad Card Reader. Card Reader may need to be replaced.
EC:2A	Diagnostic Test Card Interface Failure	Bad Card Reader. Card Reader may need to be replaced.
EC:2b	Diagnostic Test Flash Checksum Failure	Bad Card Reader. Card Reader may need to be replaced.
EC:2C	Bad Biberon or Non-biberon Device	Bad Card Reader. Card Reader may need to be replaced.
EC:2d	Firmware Update Failed, S/W (Software) Intact	Firmware load failed. Card Reader may need to be replaced.
EC:2E	Firmware Update Failed, S/W Not Intact	Bad firmware in reader. Card Reader may need to be replaced.
EC:2F	Firmware Updated, S/W Not Intact	Bad firmware in reader. Card Reader may need to be replaced.
EC:30	Timeout Error	Card Reader may need to be replaced.
EC:31	Hotlisted Card Inserted Into Reader	Card hotlisted. Control will destroy card.
EC:50	Loyalty Purse Read Error	Try card again. If error persists, card may be bad.
EC:56	Loyalty Purse Write Error	Try card again. If error persists, card may be bad.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

Display	Description	Cause/ Corrective Action
Right most DP (decimal point) Lit	Network Communication Error	Communication problem. Wait for 1.5 minutes for error to clear. If it doesn't, power-down and power-up the machine. If error persists, control or Network Board may need to be replaced.
Err	Coin Error	Invalid coin pulse.
Alrm	Breakin Alarm Error	Service door or coin vault switches.
OFF	Breakin Alarm Shutdown Error	Service door or coin vault switches.
E:OP	Open Thermistor Error	Physical "open" in thermistor circuit. Possible causes are thermistor, wiring between control and thermistor, or control.
E:SH	Shorted Thermistor Error	"Short" in thermistor circuit. Possible causes are shorted thermistor, short in wiring between control and thermistor, or control.
E:00	General Error	Re-aim Micro-wand and try again.
E:01	Proximity Error	Micro-wand is improperly aimed at infrared communicator (angle or distance). Re-aim Micro-wand and try again.
E:02	IR Communication Disconnection	Micro-wand removed before communication complete. Re-aim micro-wand and try again.
E:05	Invalid Value Communication	Invalid code downloaded from Micro-wand to Electronic Control. Before downloading, ensure data is for current machine type.
E:07	Inoperative Control	Replace control.
E:08	Inoperative Control	Replace control.
E:09	Proximity Error	Micro-wand is improperly aimed at infrared communicator (angle or distance). Re-aim Micro-wand and try again.
EI:0A	Proximity Error	Micro-wand is improperly aimed at infrared communicator (angle or distance). Re-aim Micro-wand and try again.
E:0B	IR Communication Disconnection	Micro-wand removed before communication complete. Re-aim Micro-wand and try again.
E:0C	IR Communication Disconnection	Micro-wand removed before communication complete. Re-aim Micro-wand and try again.
E:0F	IR Communicator Programmed Off	Reprogram infrared communicator on. Manually enable IR on control/Re-aim micro-wand and try again.
Err	Coin Error	Inoperative coin sensor. Check coin drop area and remove obstructions. Possible tampering. Evaluate security procedures.

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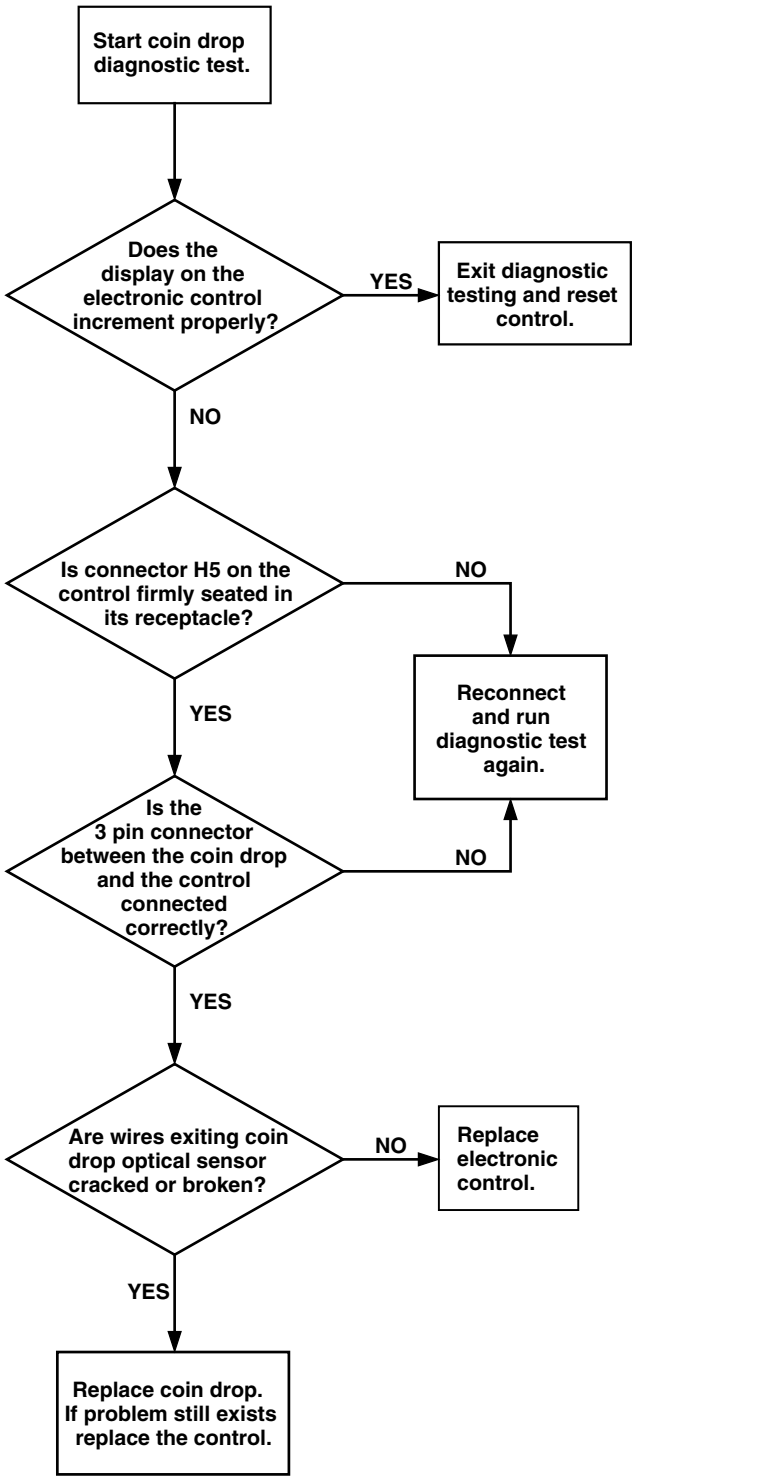
33. COINS IGNORED WHEN ENTERED IN DRYER COIN DROP


Start coin drop diagnostic test.
Does the display on the electronic control increment properly?
YES
Exit diagnostic testing and reset control.
NO
Is connector H5 on the control firmly seated in its receptacle?
NO
Reconnect and run diagnostic test again.
YES
Is the 3 pin connector between the coin drop and the control connected correctly?
NO
YES
Are wires exiting coin drop optical sensor cracked or broken?
NO
Replace electronic control.
YES
Replace coin drop. If problem still exists replace the control.

DRY353S

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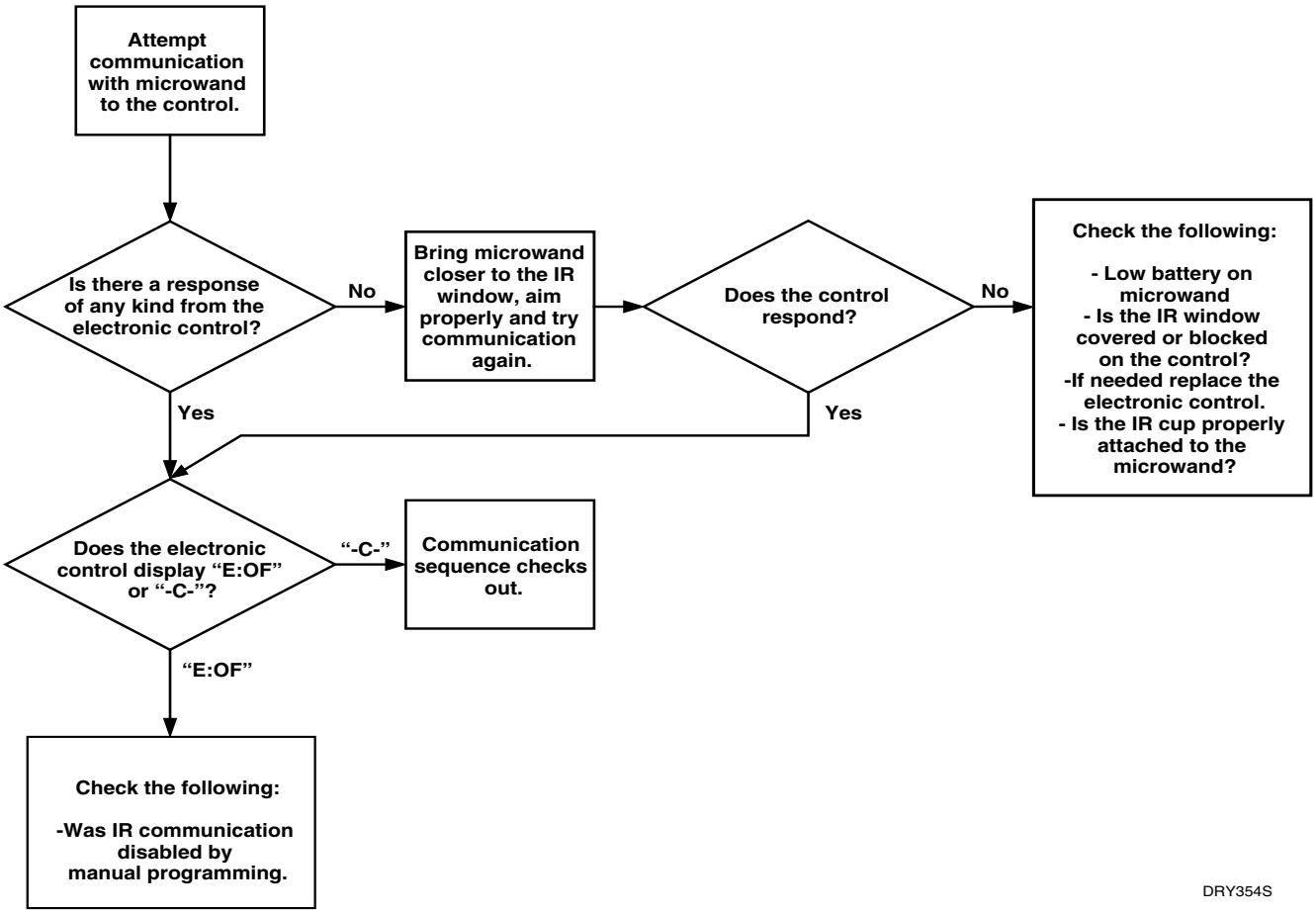
34. NO IR COMMUNICATION WITH DRYER CONTROL


Attempt communication with microwand to the control.
Is there a response of any kind from the electronic control?
No
Bring microwand closer to the IR window, aim properly and try communication again.
Does the control respond?
No
Check the following:
- Low battery on microwand
- Is the IR window covered or blocked on the control?
-If needed replace the electronic control.
- Is the IR cup properly attached to the microwand?
Yes
Yes
Does the electronic control display "E:OF" or "-C-"?
"-C-"
Communication sequence checks out.
"E:OF"
Check the following:
-Was IR communication disabled by manual programming.
DRY354S

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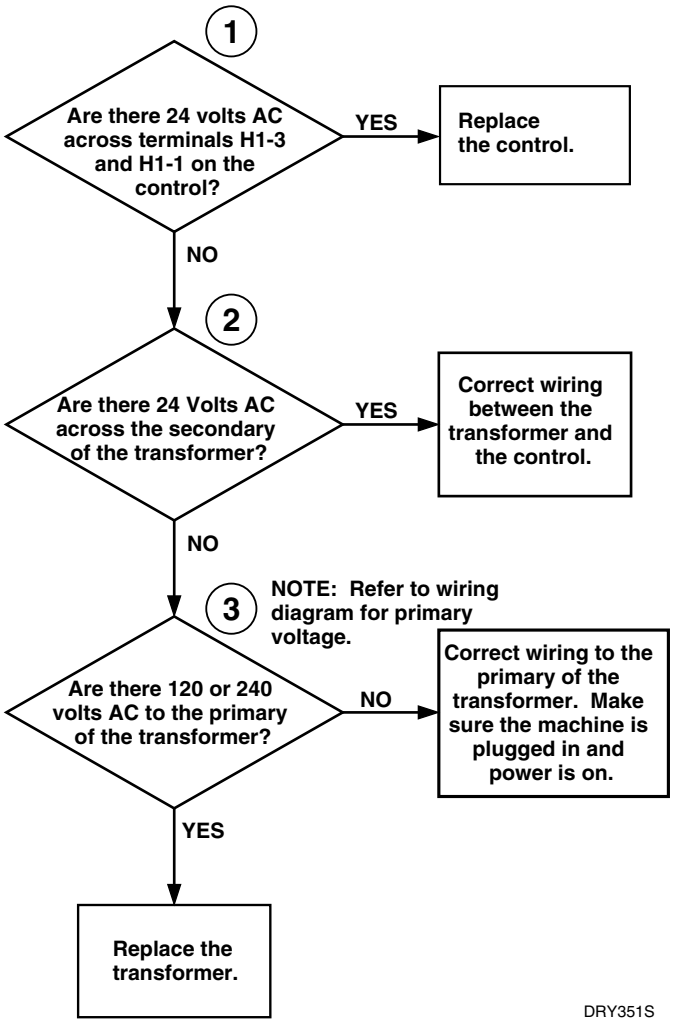
35. NO DISPLAY ON DRYER CONTROL


1
Are there 24 volts AC across terminals H1-3 and H1-1 on the control?
YES
Replace the control.
NO
2
Are there 24 Volts AC across the secondary of the transformer?
YES
Correct wiring between the transformer and the control.
NO
3
NOTE: Refer to wiring diagram for primary voltage.
Are there 120 or 240 volts AC to the primary of the transformer?
NO
Correct wiring to the primary of the transformer. Make sure the machine is plugged in and power is on.
YES
Replace the transformer.
DRY351S

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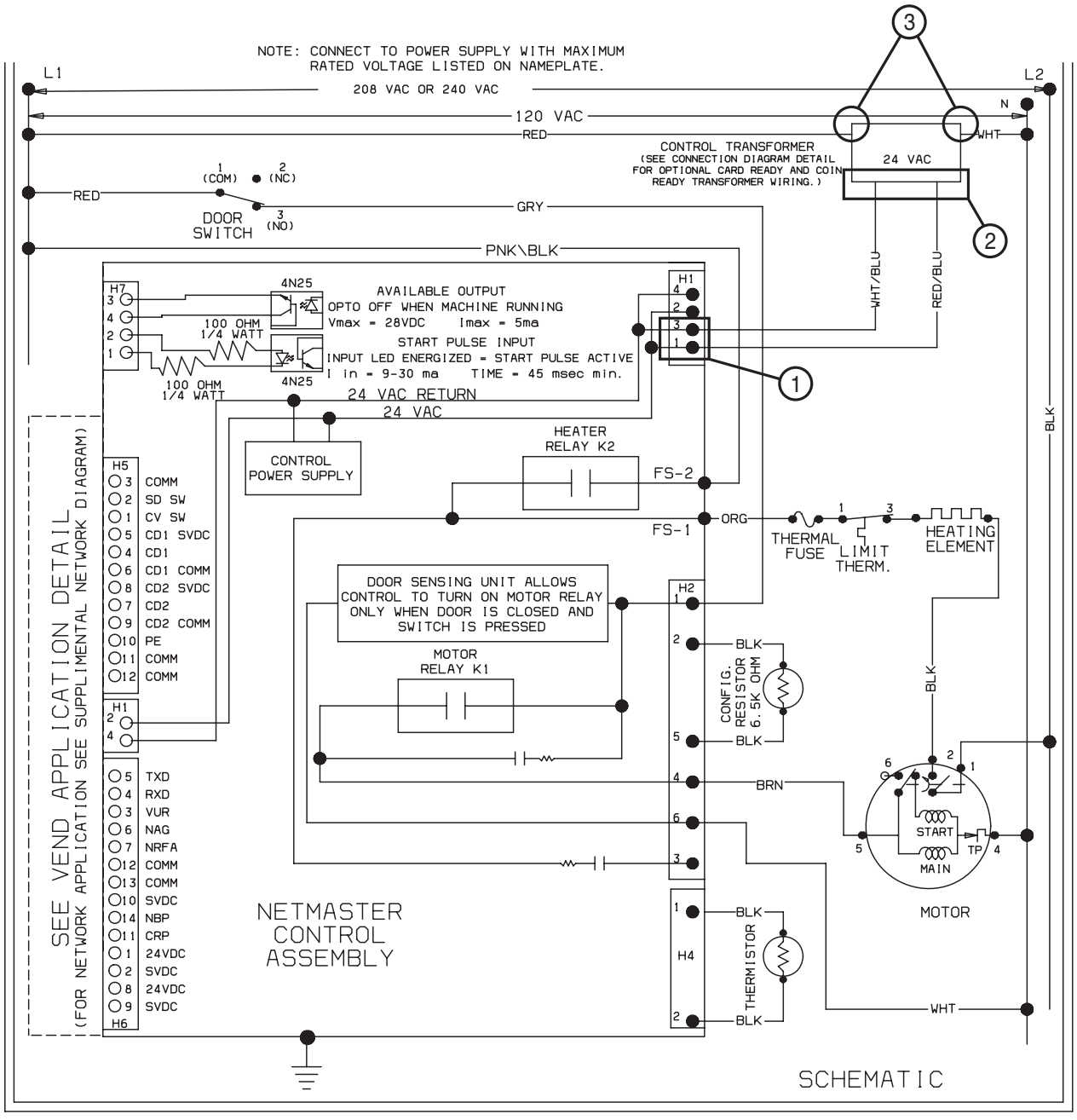
NO DISPLAY ON DRYER CONTROL



DRY352S_

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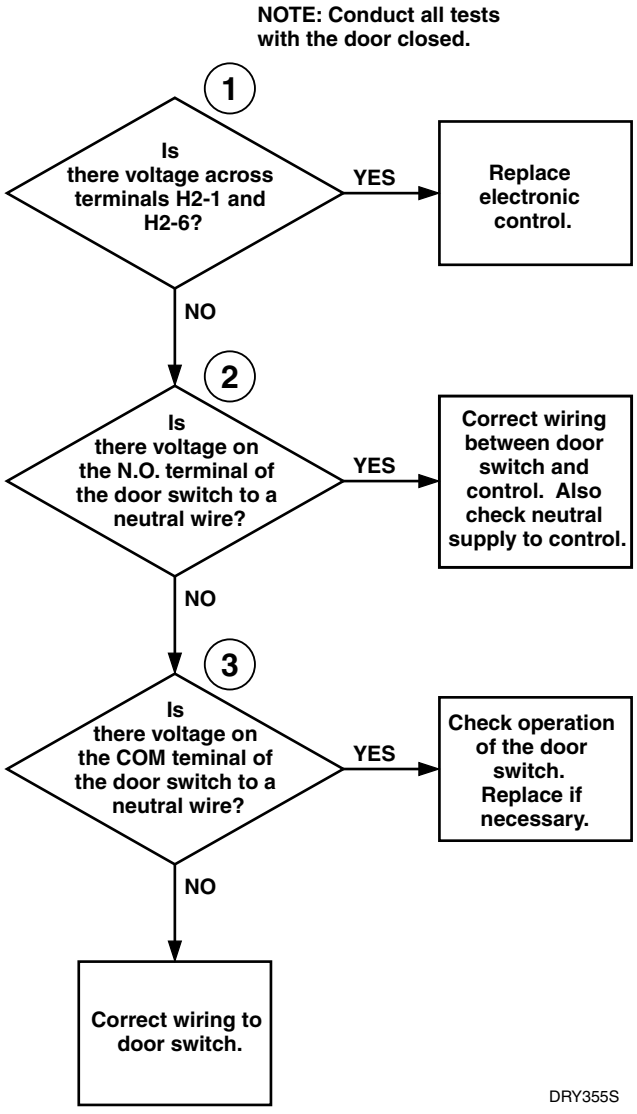
36. DRYER DOOR OPEN


NOTE: Conduct all tests with the door closed.
1
Is there voltage across terminals H2-1 and H2-6?
YES
Replace electronic control.
NO
2
Is there voltage on the N.O. terminal of the door switch to a neutral wire?
YES
Correct wiring between door switch and control. Also check neutral supply to control.
NO
3
Is there voltage on the COM teminal of the door switch to a neutral wire?
YES
Check operation of the door switch. Replace if necessary.
NO
Correct wiring to door switch.
DRY355S

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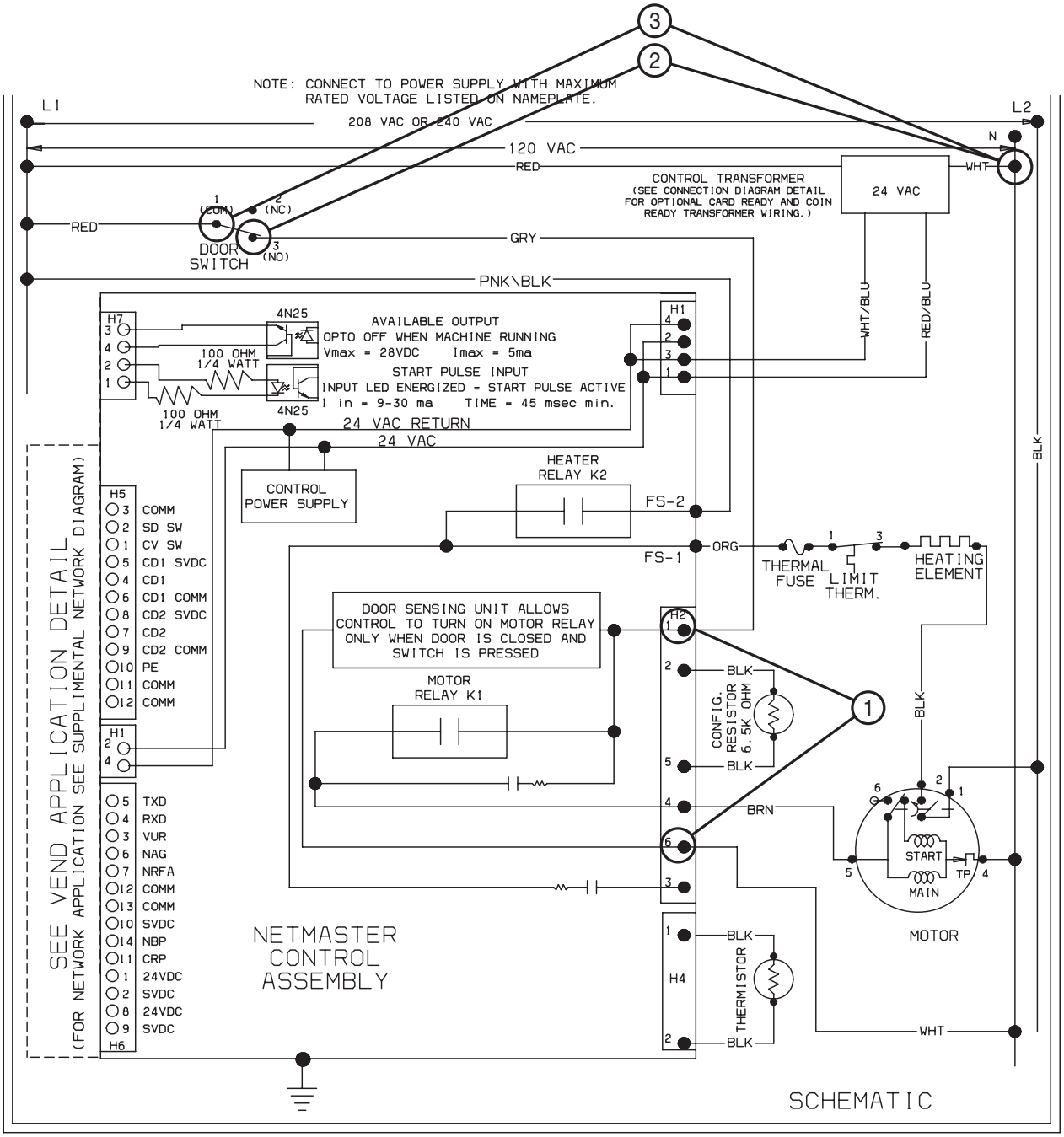
DRYER DOOR OPEN



DRY356S_

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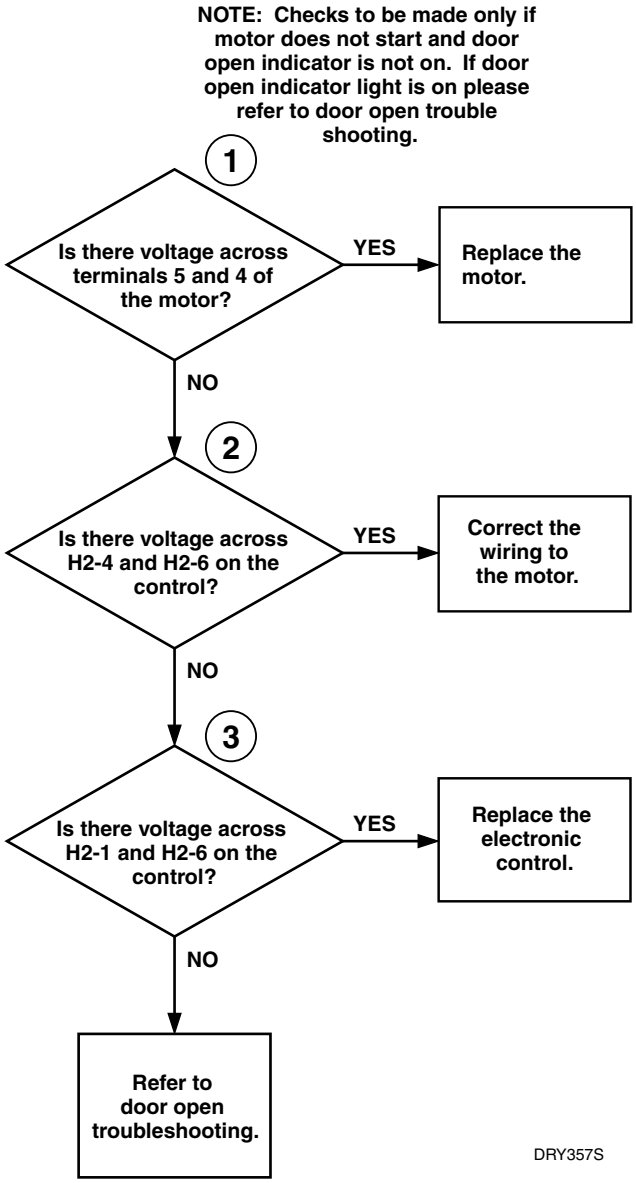
37. DRYER MOTOR WILL NOT START


NOTE: Checks to be made only if motor does not start and door open indicator is not on. If door open indicator light is on please refer to door open trouble shooting.
1
Is there voltage across terminals 5 and 4 of the motor?
YES
Replace the motor.
NO
2
Is there voltage across H2-4 and H2-6 on the control?
YES
Correct the wiring to the motor.
NO
3
Is there voltage across H2-1 and H2-6 on the control?
YES
Replace the electronic control.
NO
Refer to door open troubleshooting.
DRY357S

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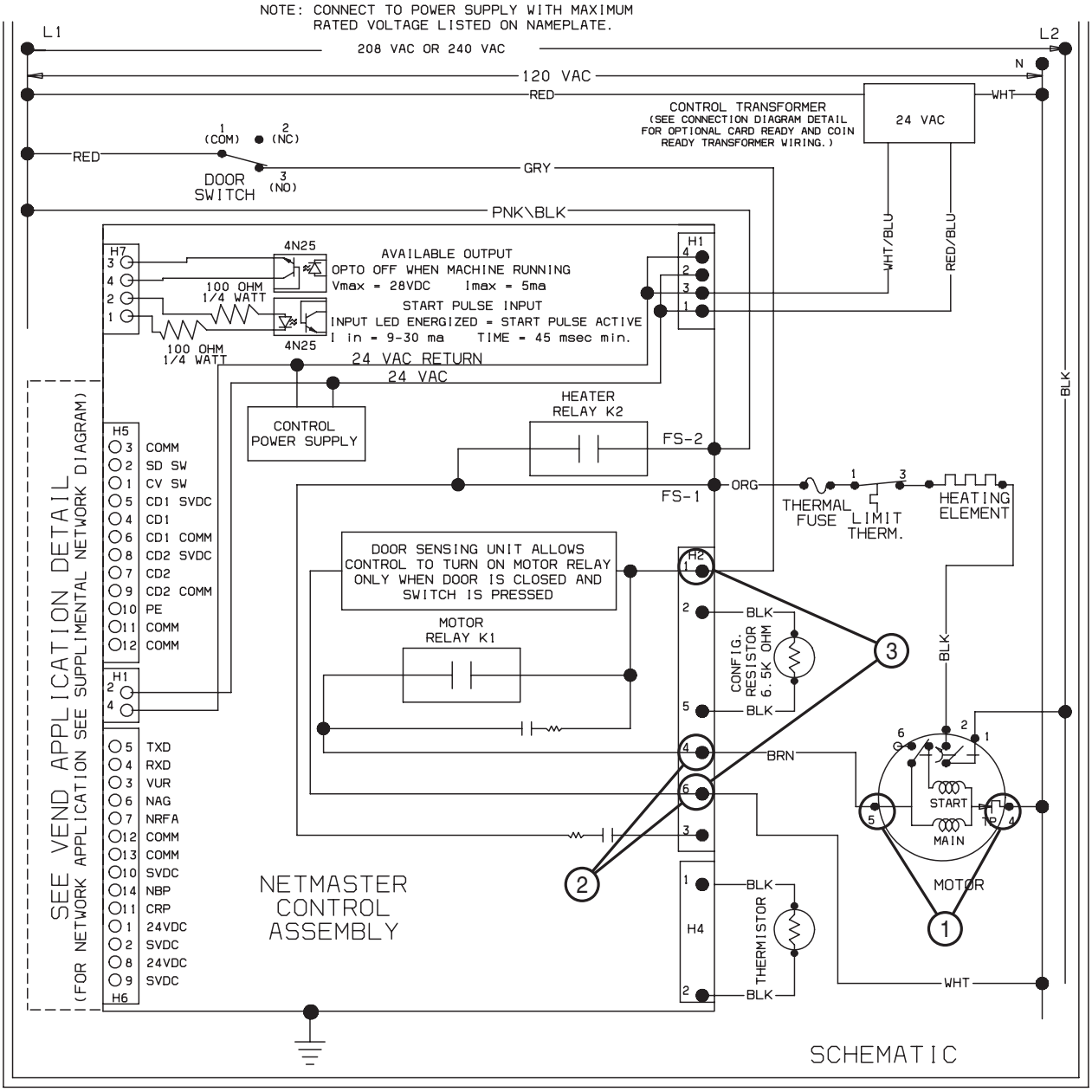
DRYER MOTOR WILL NOT START



DRY358S_

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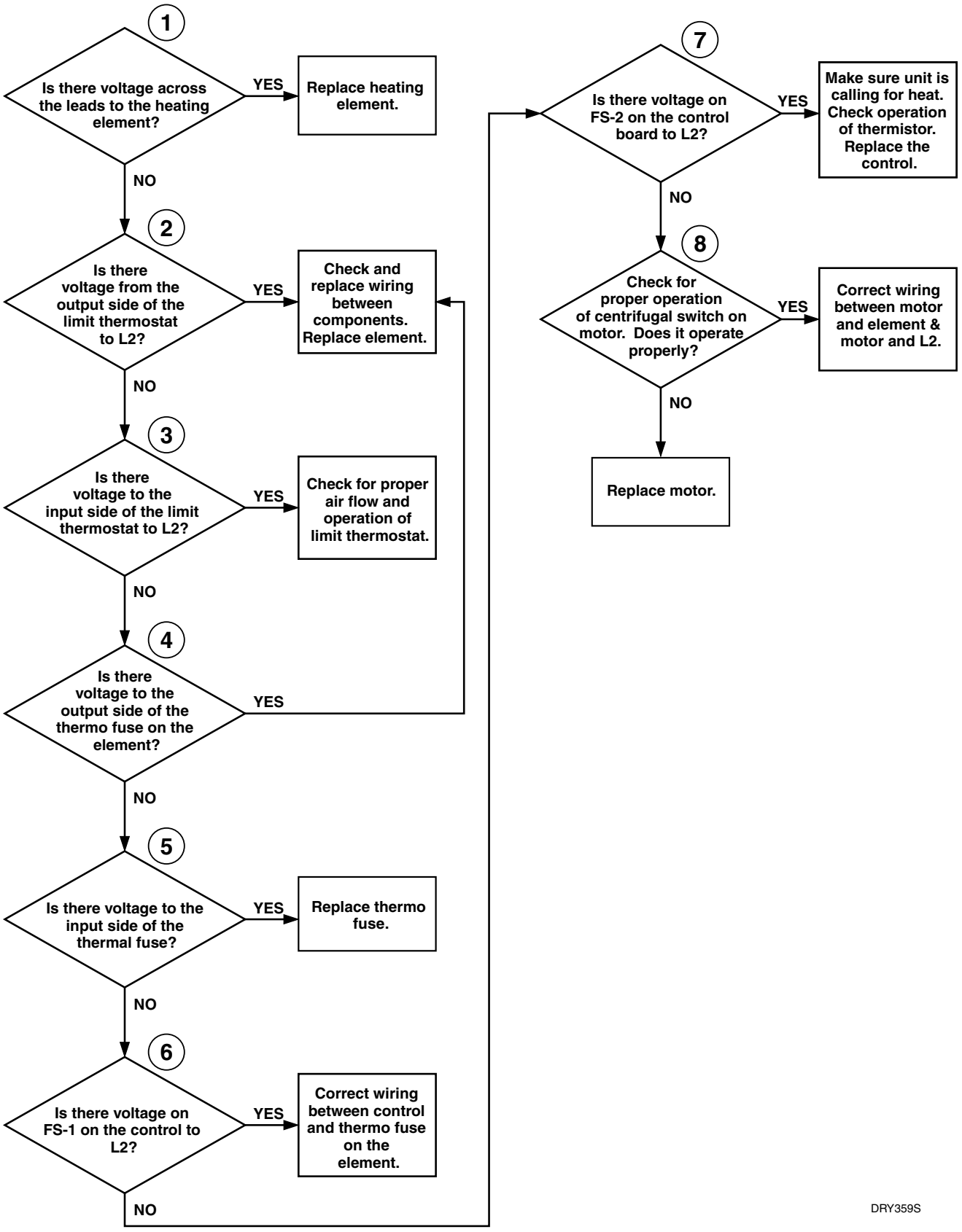
38. NO HEAT (ELECTRIC DRYER MODELS)


1
Is there voltage across the leads to the heating element?
YES
Replace heating element.
NO
2
Is there voltage from the output side of the limit thermostat to L2?
YES
Check and replace wiring between components. Replace element.
NO
3
Is there voltage to the input side of the limit thermostat to L2?
YES
Check for proper air flow and operation of limit thermostat.
NO
4
Is there voltage to the output side of the thermo fuse on the element?
YES
NO
5
Is there voltage to the input side of the thermal fuse?
YES
Replace thermo fuse.
NO
6
Is there voltage on FS-1 on the control to L2?
YES
Correct wiring between control and thermo fuse on the element.
NO
7
Is there voltage on FS-2 on the control board to L2?
YES
Make sure unit is calling for heat. Check operation of thermistor. Replace the control.
NO
8
Check for proper operation of centrifugal switch on motor. Does it operate properly?
YES
Correct wiring between motor and element & motor and L2.
NO
Replace motor.
DRY359S

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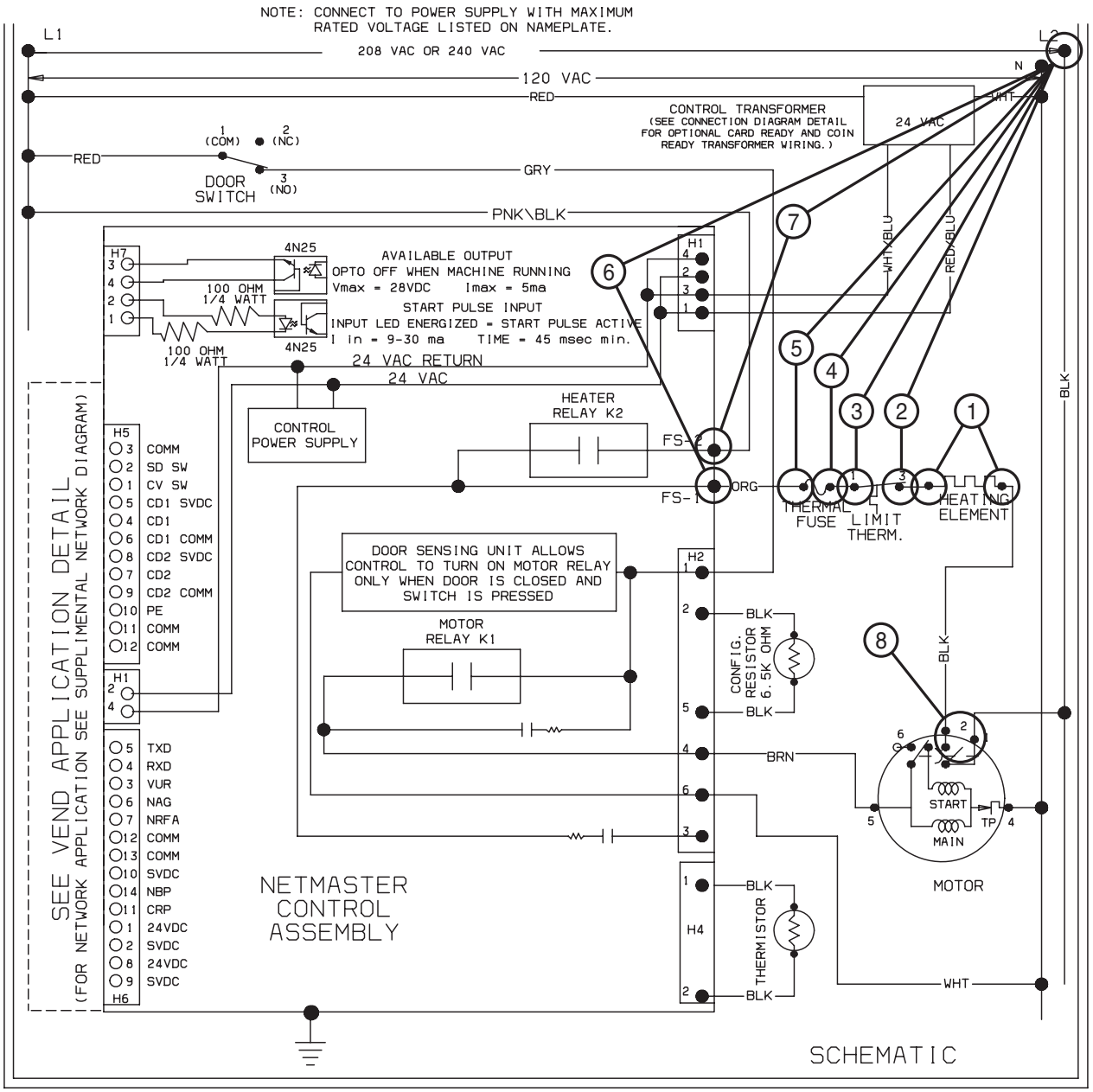
NO HEAT (ELECTRIC DRYER MODELS)



DRY360S_

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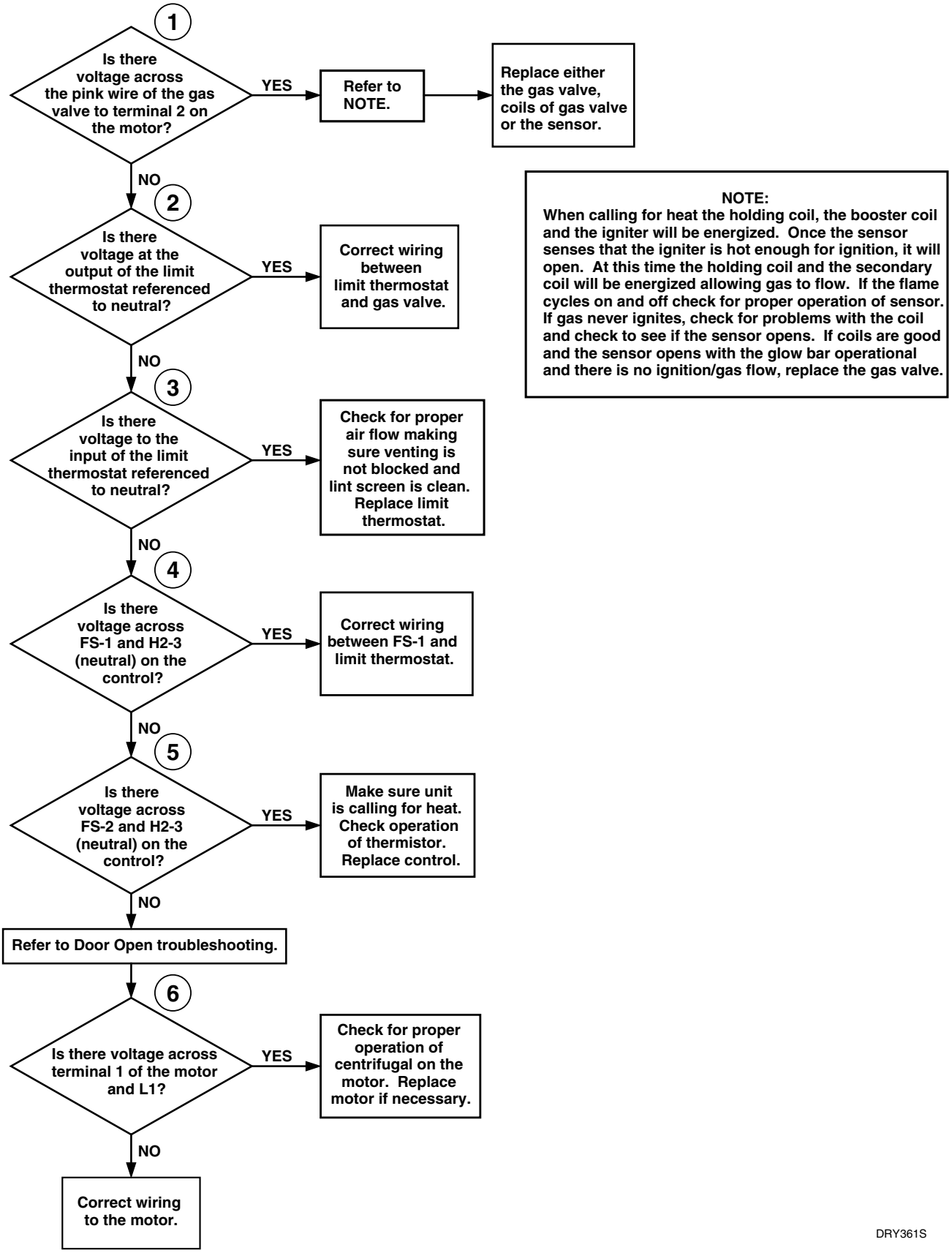
39. NO HEAT (GAS DRYER MODELS)


1
Is there voltage across the pink wire of the gas valve to terminal 2 on the motor?
YES
Refer to NOTE.
Replace either the gas valve, coils of gas valve or the sensor.
NO
2
Is there voltage at the output of the limit thermostat referenced to neutral?
YES
Correct wiring between limit thermostat and gas valve.
NO
3
Is there voltage to the input of the limit thermostat referenced to neutral?
YES
Check for proper air flow making sure venting is not blocked and lint screen is clean. Replace limit thermostat.
NO
4
Is there voltage across FS-1 and H2-3 (neutral) on the control?
YES
Correct wiring between FS-1 and limit thermostat.
NO
5
Is there voltage across FS-2 and H2-3 (neutral) on the control?
YES
Make sure unit is calling for heat. Check operation of thermistor. Replace control.
NO
Refer to Door Open troubleshooting.
6
Is there voltage across terminal 1 of the motor and L1?
YES
Check for proper operation of centrifugal on the motor. Replace motor if necessary.
NO
Correct wiring to the motor.
NOTE:
When calling for heat the holding coil, the booster coil and the igniter will be energized. Once the sensor senses that the igniter is hot enough for ignition, it will open. At this time the holding coil and the secondary coil will be energized allowing gas to flow. If the flame cycles on and off check for proper operation of sensor. If gas never ignites, check for problems with the coil and check to see if the sensor opens. If coils are good and the sensor opens with the glow bar operational and there is no ignition/gas flow, replace the gas valve.
DRY361S

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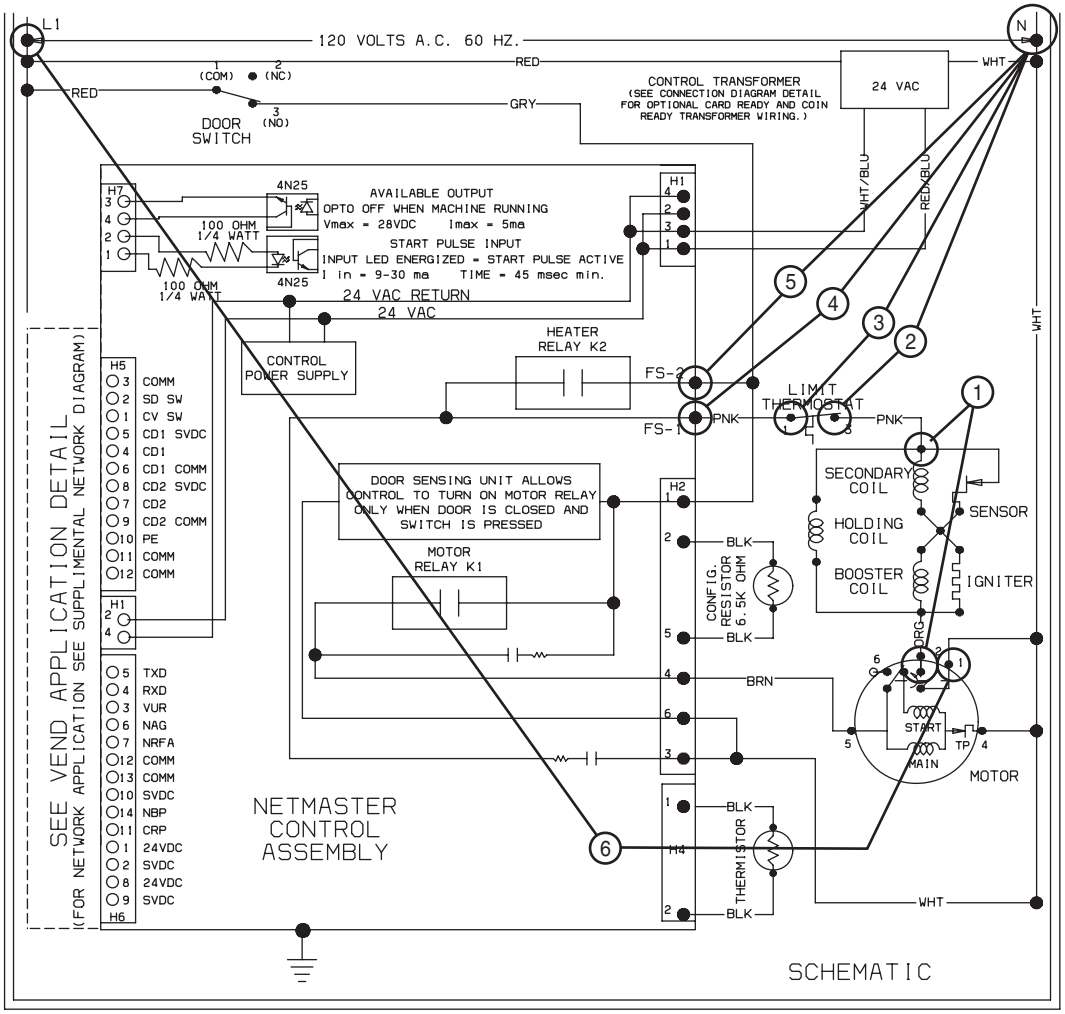
NO HEAT (GAS DRYER MODELS)



DRY362S_

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Notes

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Troubleshooting
MDC Models – Dryer Control

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

40. ERROR CODE LISTING

OP	Open Thermistor Error.	This error code indicates a physical "open" in the thermistor circuit. Possible causes are: 1) thermistor, 2) wiring between control and thermistor, or 3) control.
SH	Shorted Thermistor Error	This error code indicates a "short" in the thermistor circuit. Possible causes are: 1) Shorted thermistor, 2) a short in the wiring between control and thermistor, or 3) control.
EC:19 (Card Reader Machines)	No Card Reader Communication	This error code indicates there is no card reader communication. The control and the reader cannot communicate. Check reader, control and harness. **NOTE: For all other Card Reader errors, consult the Card Reader manufacturer.**

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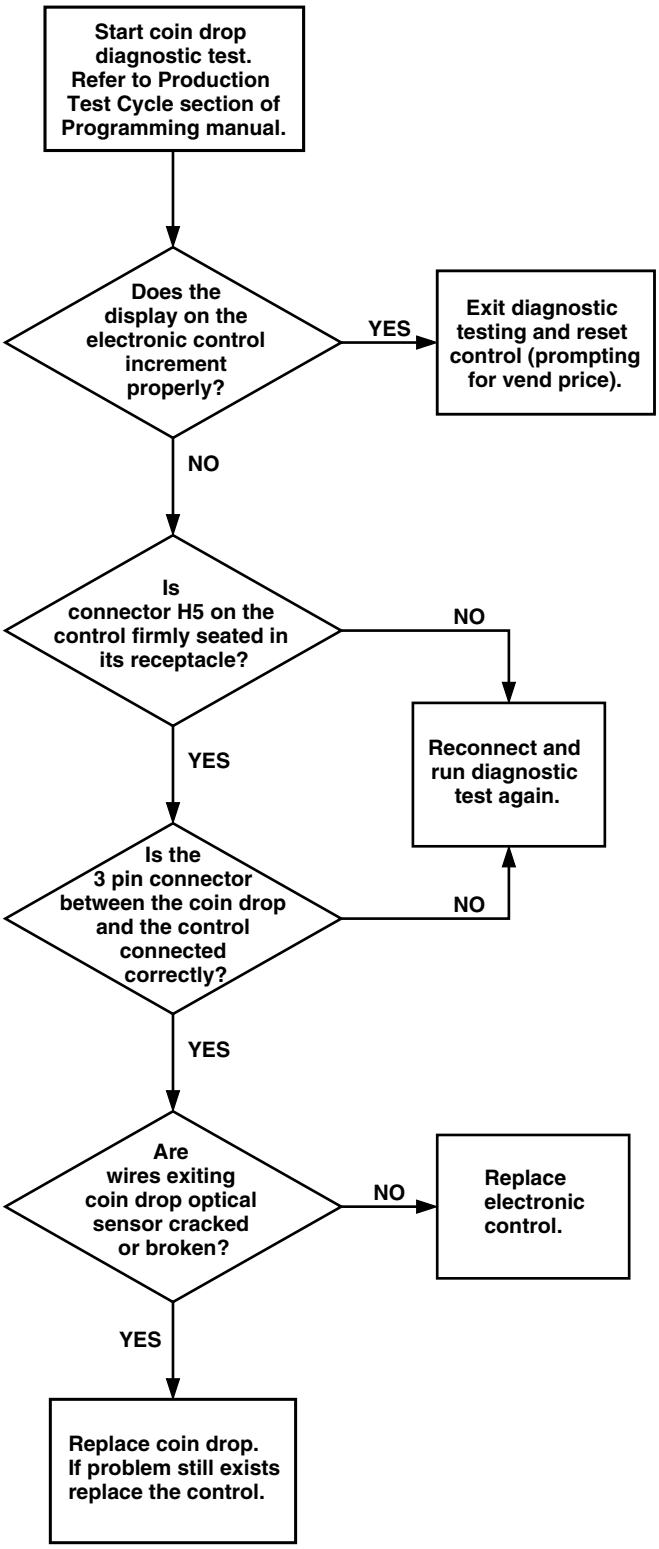
41. COINS IGNORED WHEN ENTERED IN DRYER COIN DROP


Start coin drop diagnostic test. Refer to Production Test Cycle section of Programming manual.
Does the display on the electronic control increment properly?
YES
Exit diagnostic testing and reset control (prompting for vend price).
NO
Is connector H5 on the control firmly seated in its receptacle?
NO
Reconnect and run diagnostic test again.
YES
Is the 3 pin connector between the coin drop and the control connected correctly?
NO
YES
Are wires exiting coin drop optical sensor cracked or broken?
NO
Replace electronic control.
YES
Replace coin drop. If problem still exists replace the control.
DRY353_S

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Notes

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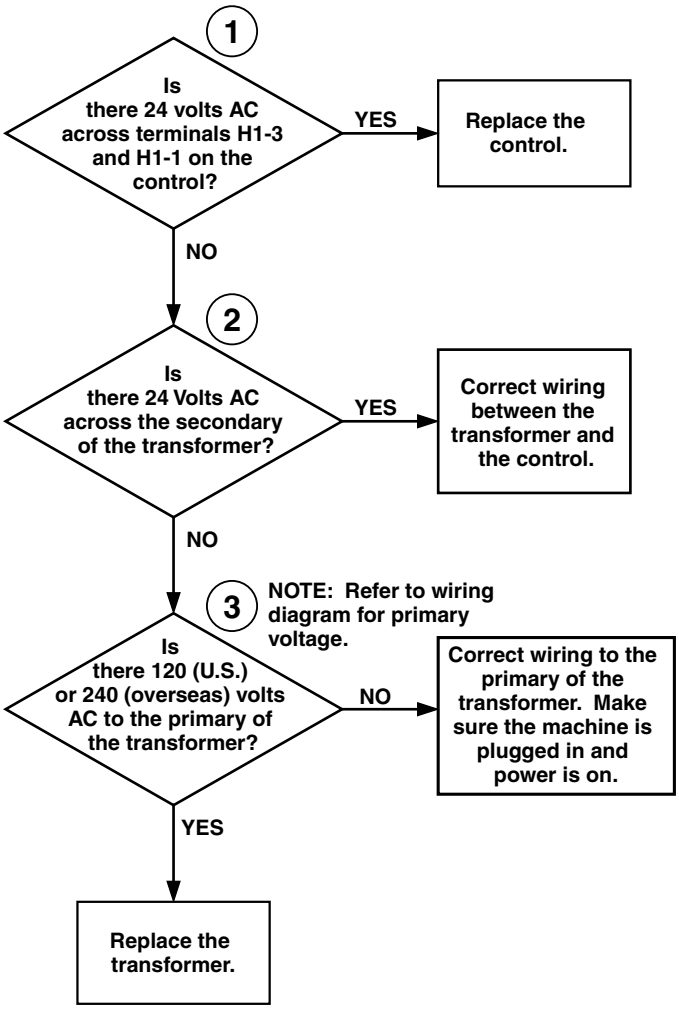
42. NO VISIBLE DISPLAY ON DRYER CONTROL


1
Is there 24 volts AC across terminals H1-3 and H1-1 on the control?
YES
Replace the control.
NO
2
Is there 24 Volts AC across the secondary of the transformer?
YES
Correct wiring between the transformer and the control.
NO
3
NOTE: Refer to wiring diagram for primary voltage.
Is there 120 (U.S.) or 240 (overseas) volts AC to the primary of the transformer?
NO
Correct wiring to the primary of the transformer. Make sure the machine is plugged in and power is on.
YES
Replace the transformer.
DRY351_S

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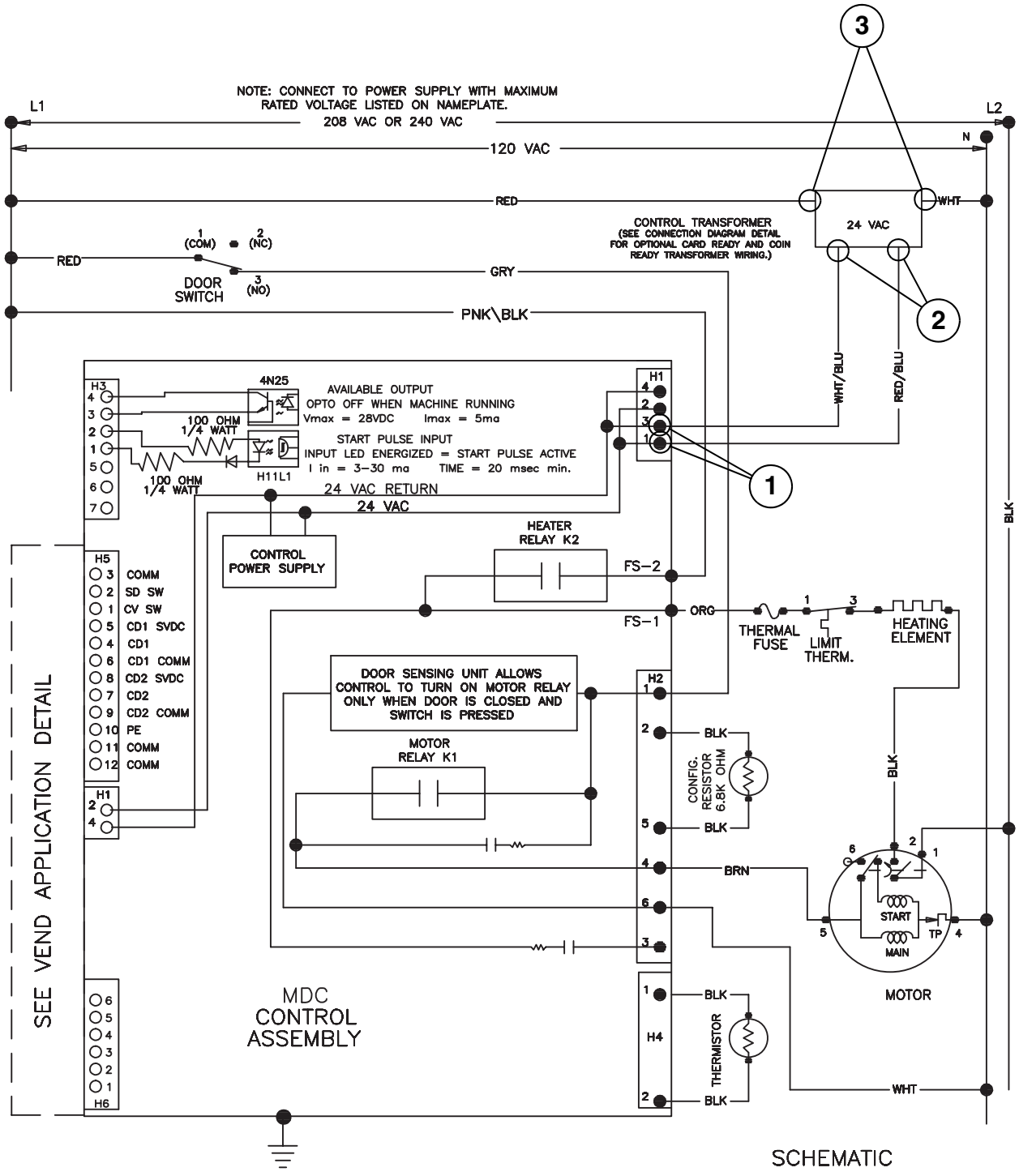
NO VISIBLE DISPLAY ON DRYER CONTROL



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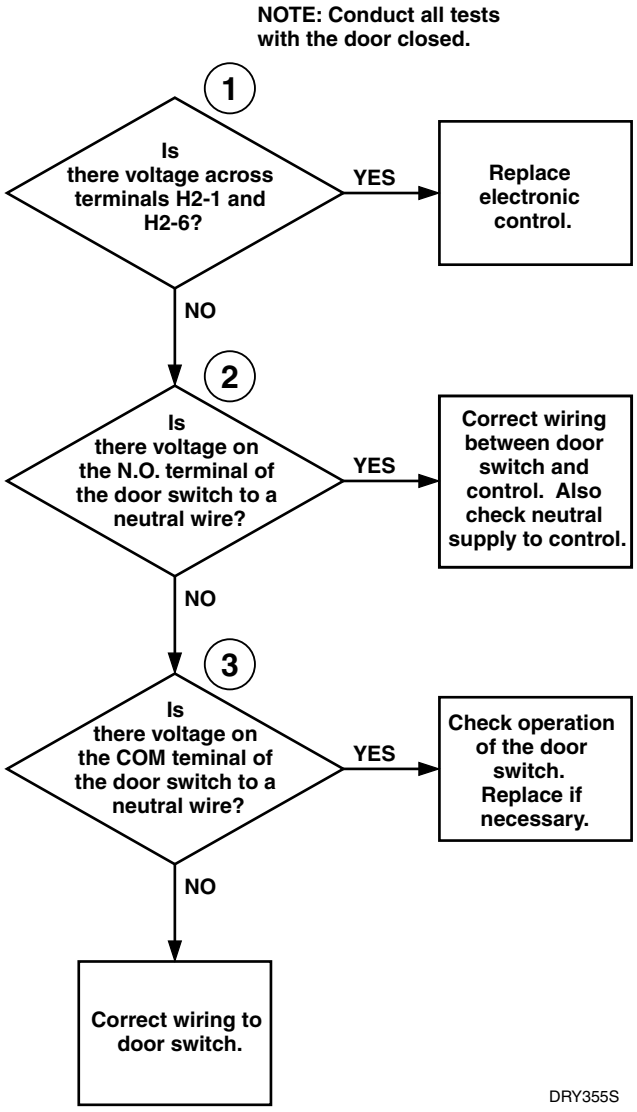
43. DRYER DOOR OPEN


NOTE: Conduct all tests with the door closed.
1
Is there voltage across terminals H2-1 and H2-6?
YES
Replace electronic control.
NO
2
Is there voltage on the N.O. terminal of the door switch to a neutral wire?
YES
Correct wiring between door switch and control. Also check neutral supply to control.
NO
3
Is there voltage on the COM teminal of the door switch to a neutral wire?
YES
Check operation of the door switch. Replace if necessary.
NO
Correct wiring to door switch.
DRY355S

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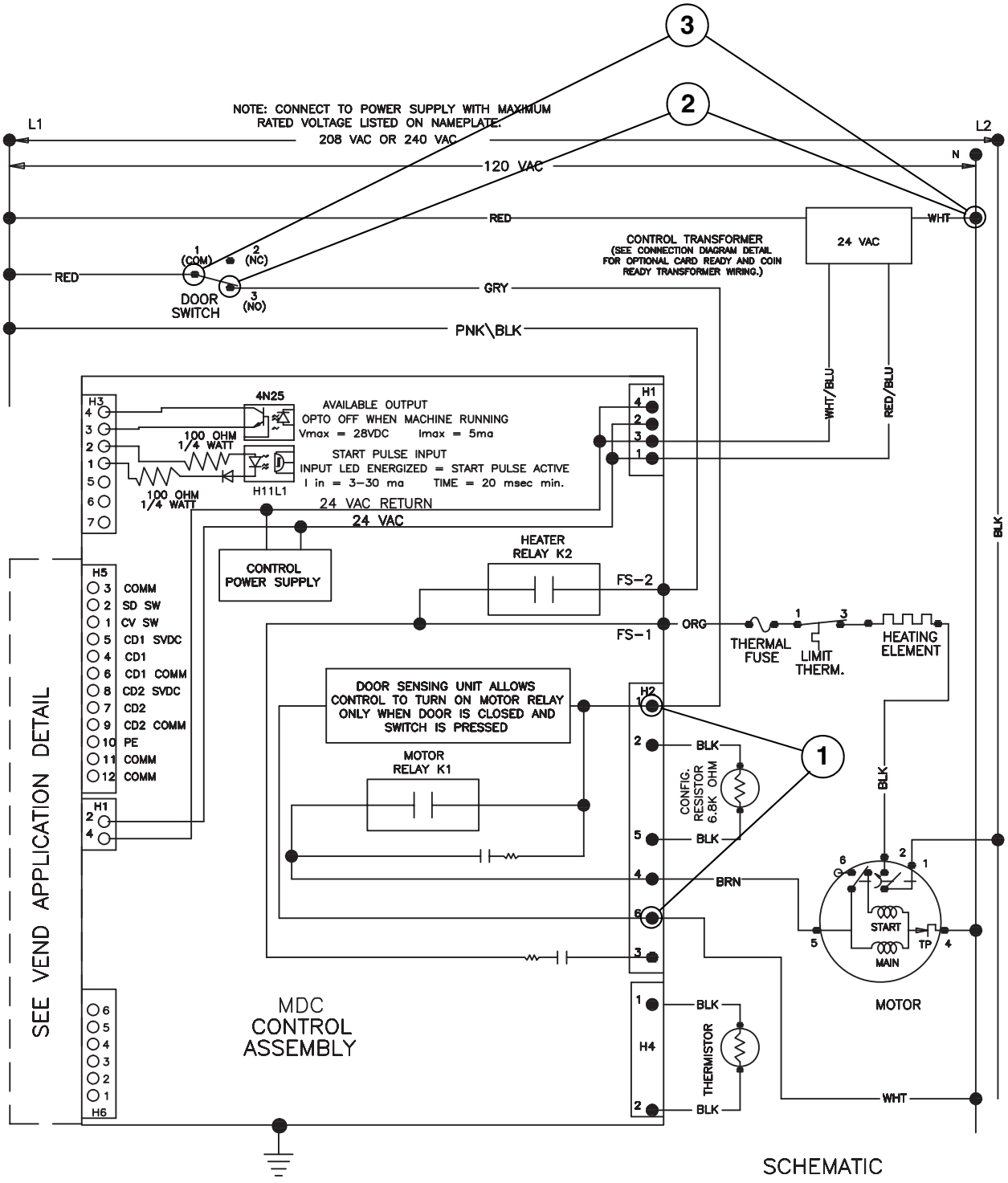
DRYER DOOR OPEN



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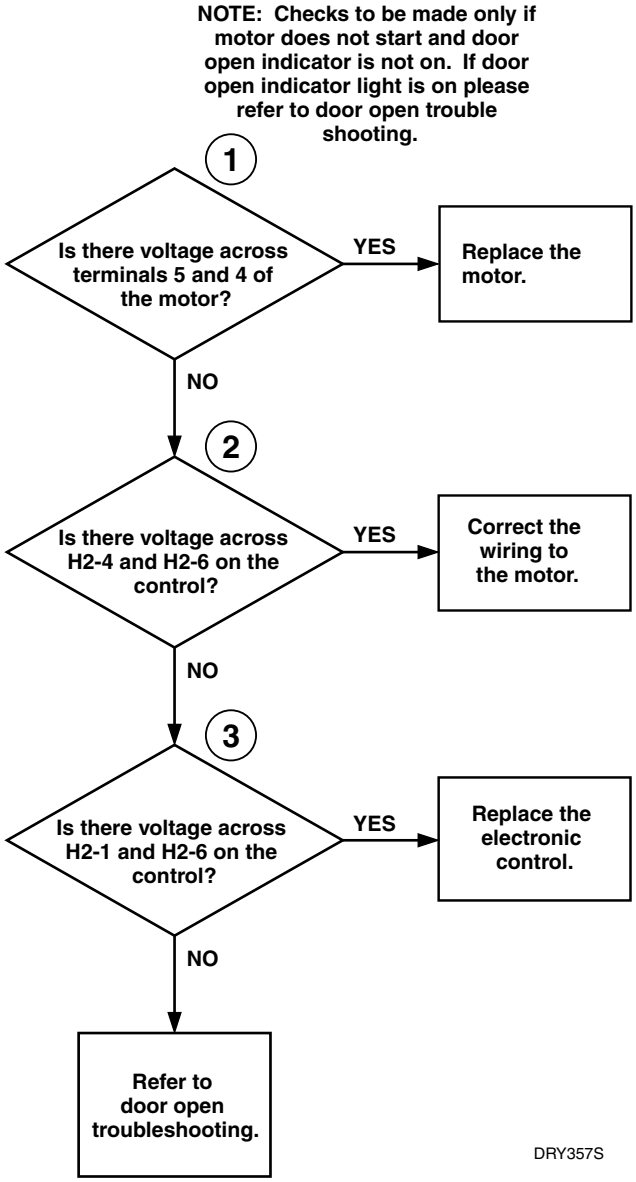
44. DRYER MOTOR WILL NOT START


NOTE: Checks to be made only if motor does not start and door open indicator is not on. If door open indicator light is on please refer to door open trouble shooting.
1
Is there voltage across terminals 5 and 4 of the motor?
YES
Replace the motor.
NO
2
Is there voltage across H2-4 and H2-6 on the control?
YES
Correct the wiring to the motor.
NO
3
Is there voltage across H2-1 and H2-6 on the control?
YES
Replace the electronic control.
NO
Refer to door open troubleshooting.
DRY357S

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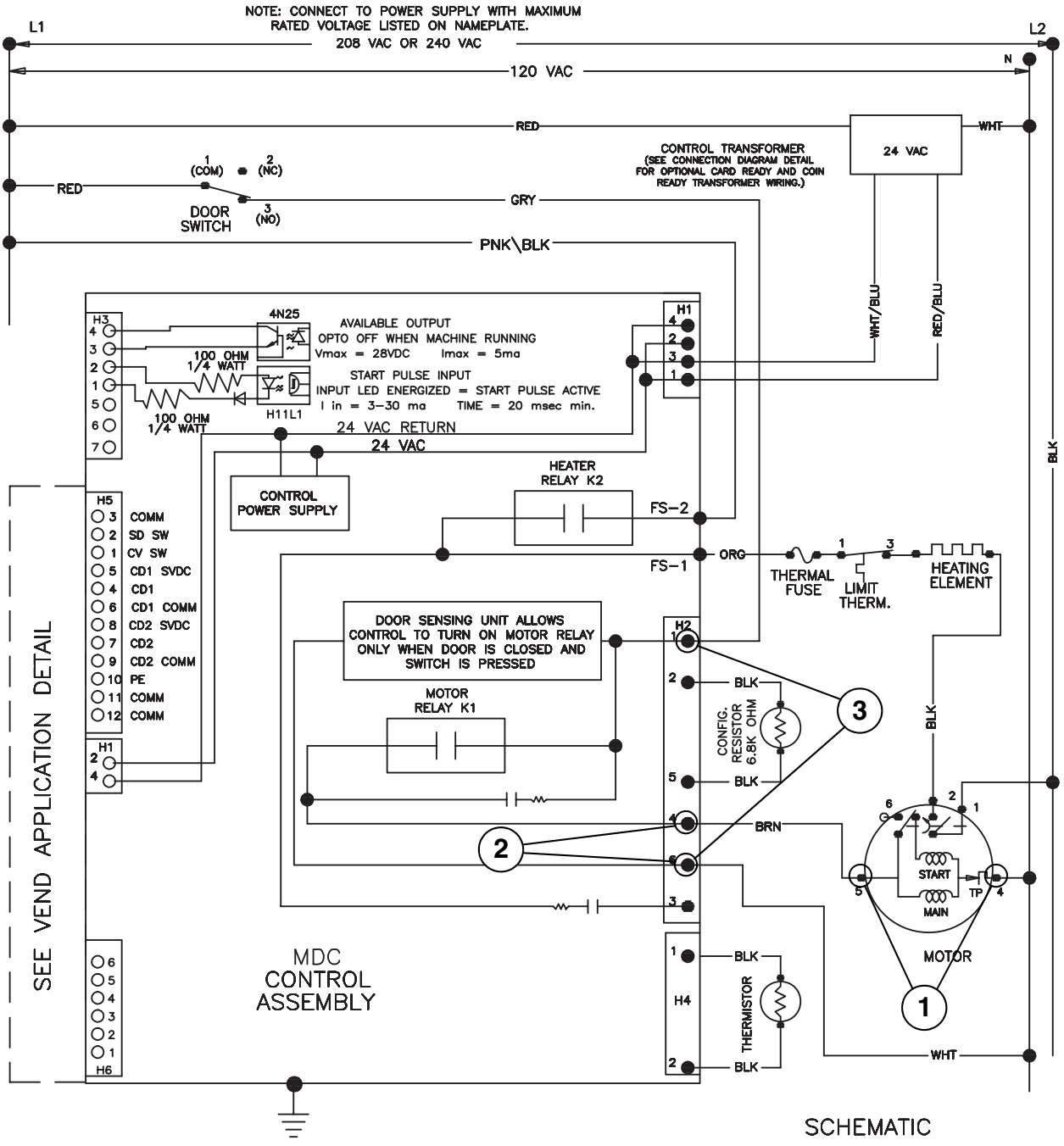
DRYER MOTOR WILL NOT START



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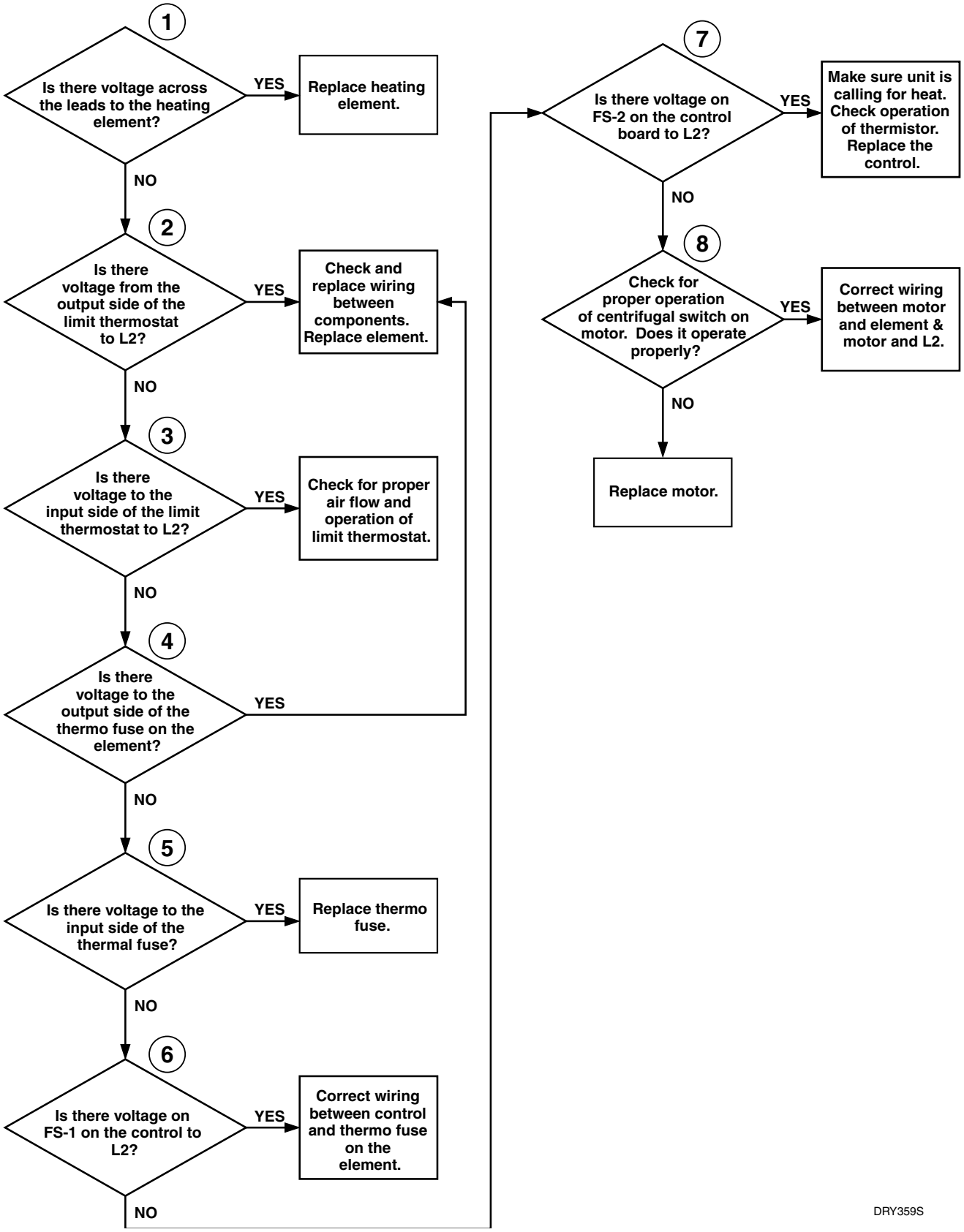
45. NO HEAT (ELECTRIC DRYER MODELS)


1
Is there voltage across the leads to the heating element?
YES
Replace heating element.
NO
2
Is there voltage from the output side of the limit thermostat to L2?
YES
Check and replace wiring between components. Replace element.
NO
3
Is there voltage to the input side of the limit thermostat to L2?
YES
Check for proper air flow and operation of limit thermostat.
NO
4
Is there voltage to the output side of the thermo fuse on the element?
YES
NO
5
Is there voltage to the input side of the thermal fuse?
YES
Replace thermo fuse.
NO
6
Is there voltage on FS-1 on the control to L2?
YES
Correct wiring between control and thermo fuse on the element.
NO
7
Is there voltage on FS-2 on the control board to L2?
YES
Make sure unit is calling for heat. Check operation of thermistor. Replace the control.
NO
8
Check for proper operation of centrifugal switch on motor. Does it operate properly?
YES
Correct wiring between motor and element & motor and L2.
NO
Replace motor.
DRY359S

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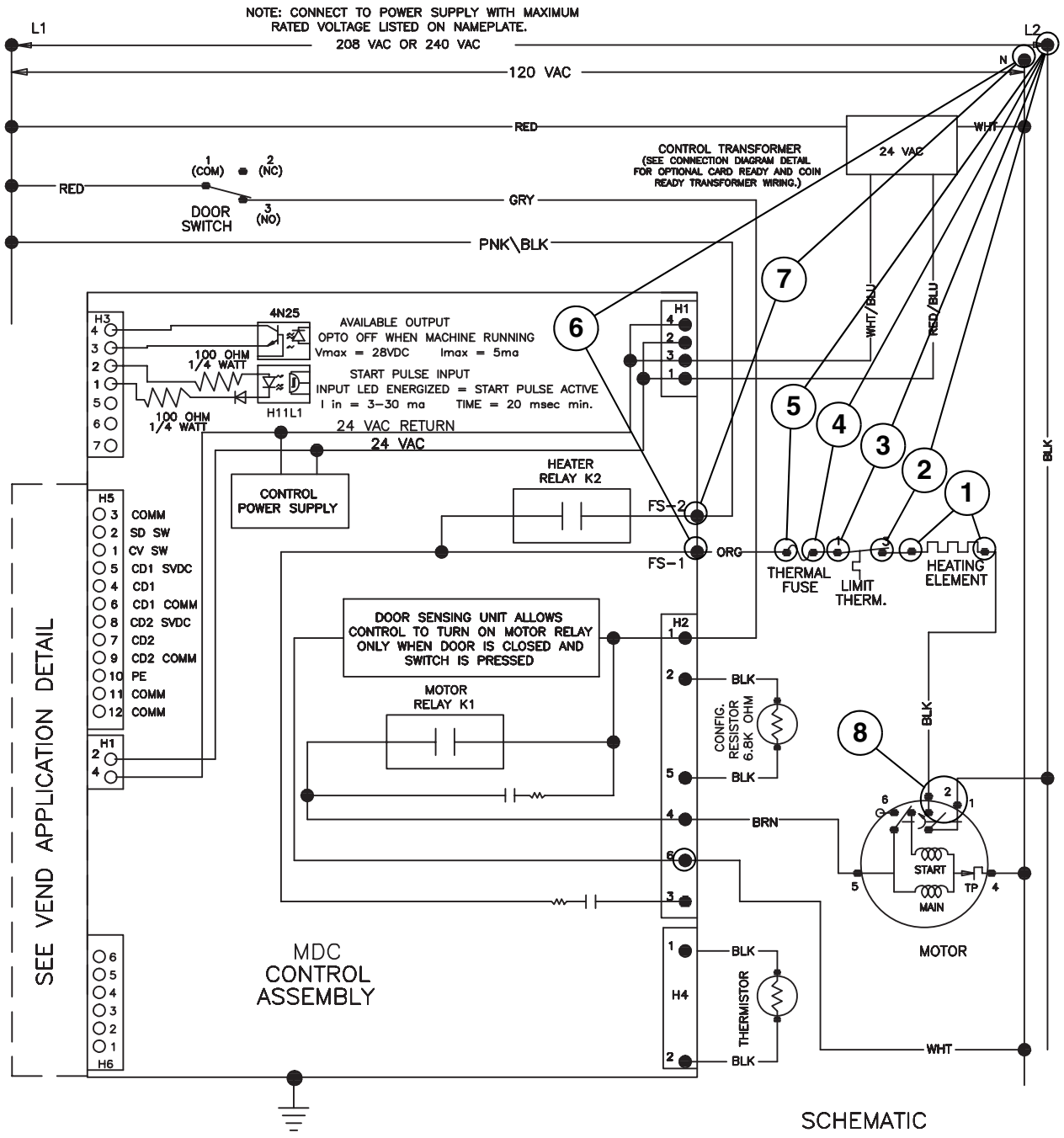
NO HEAT (ELECTRIC DRYER MODELS)



SCHEMATIC

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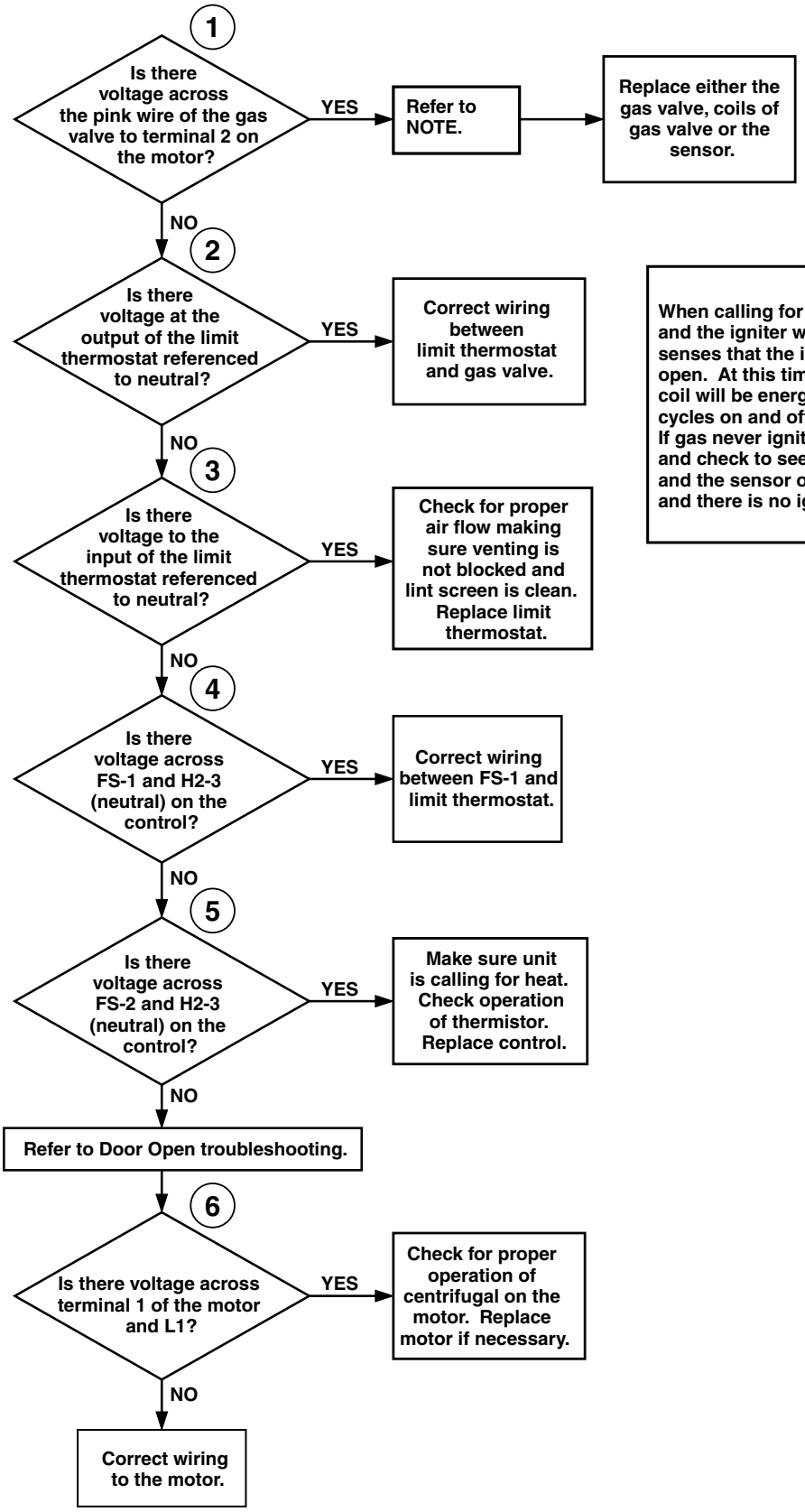
46. NO HEAT (GAS DRYER MODELS)


1
Is there voltage across the pink wire of the gas valve to terminal 2 on the motor?
YES
Refer to NOTE.
Replace either the gas valve, coils of gas valve or the sensor.
NO
2
Is there voltage at the output of the limit thermostat referenced to neutral?
YES
Correct wiring between limit thermostat and gas valve.
NO
3
Is there voltage to the input of the limit thermostat referenced to neutral?
YES
Check for proper air flow making sure venting is not blocked and lint screen is clean. Replace limit thermostat.
NO
4
Is there voltage across FS-1 and H2-3 (neutral) on the control?
YES
Correct wiring between FS-1 and limit thermostat.
NO
5
Is there voltage across FS-2 and H2-3 (neutral) on the control?
YES
Make sure unit is calling for heat. Check operation of thermistor. Replace control.
NO
Refer to Door Open troubleshooting.
6
Is there voltage across terminal 1 of the motor and L1?
YES
Check for proper operation of centrifugal on the motor. Replace motor if necessary.
NO
Correct wiring to the motor.
NOTE:
When calling for heat the holding coil, the booster coil and the igniter will be energized. Once the sensor senses that the igniter is hot enough for ignition, it will open. At this time the holding coil and the secondary coil will be energized allowing gas to flow. If the flame cycles on and off check for proper operation of sensor. If gas never ignites, check for problems with the coil and check to see if the sensor opens. If coils are good and the sensor opens with the glow bar operational and there is no ignition/gas flow, replace the gas valve.
DRY361_S

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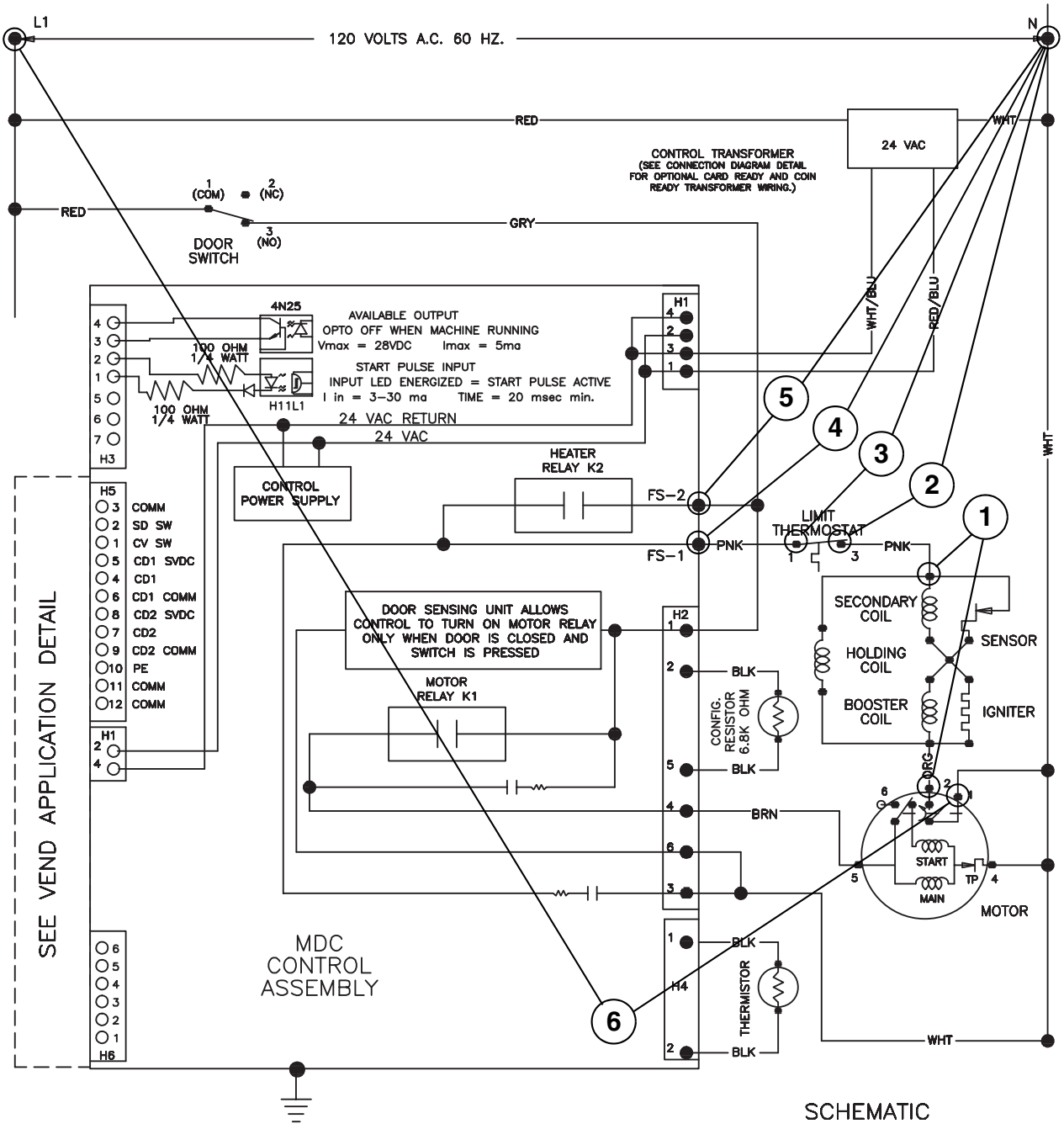
NO HEAT (GAS DRYER MODELS)



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Notes

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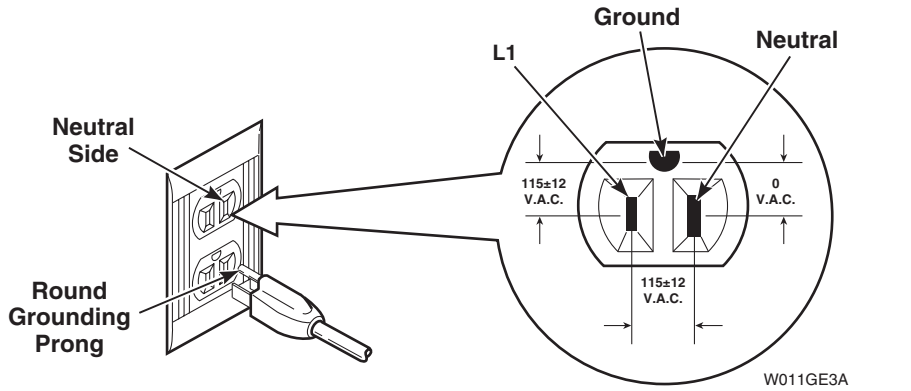
Section 4
Grounding

WARNING

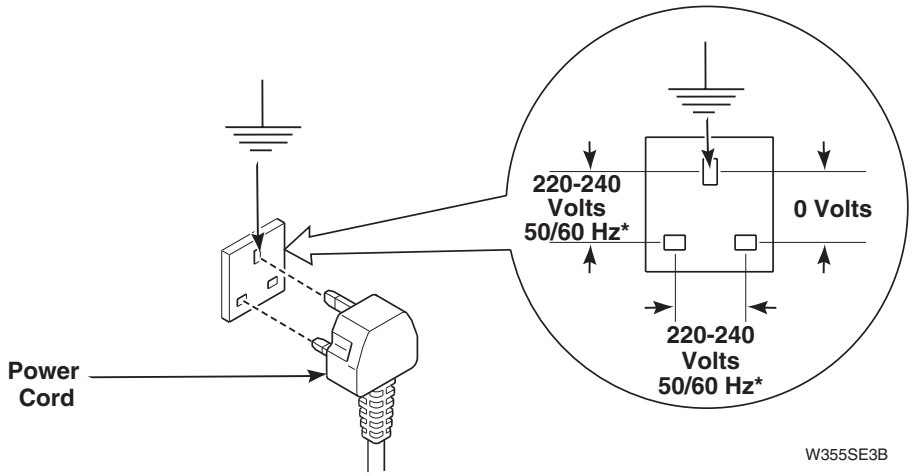
To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

47. WALL RECEPTACLE POLARITY CHECK (Washer Power Cord)
Refer to *Figure 2*.



NOTE: Have a qualified electrician check polarity of wall receptacle. If a voltage reading is measured other than that illustrated, the qualified electrician should correct the problem.



NOTE: Have a qualified electrician check polarity of wall receptacle. If a voltage reading is measured other than that illustrated, the qualified electrician should correct the problem.

***Refer to serial plate for correct voltage and hertz.**

Figure 2

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

48. GROUND WIRES FROM TERMINAL BLOCK OR POWER CORD TO REAR BULKHEAD AND FROM REAR BULKHEAD TO CONTROL HOUSING

Refer to *Figures 3* and *4*.

60 Hertz Models

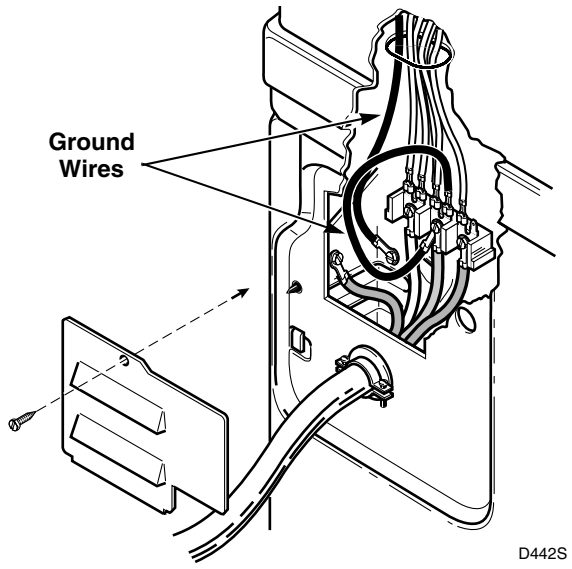

Figure 3

50 Hertz Models

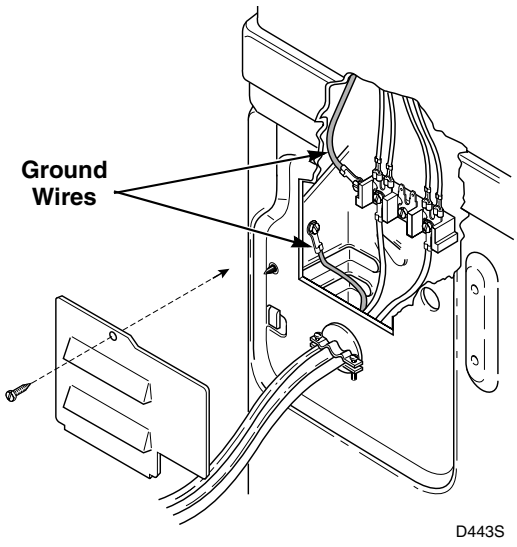

Figure 4

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

49. WASHER GROUND CONNECTIONS

Refer to *Figure 5*.

1. Ground to Electronic Controls
2. Ground to Control Panel Assembly
3. Ground to Control Cabinet
4. Ground Power Cord to Control Cabinet Wrapper
5. Grounding Hardware to Control Cabinet Wrapper
6. Ground to Electric Drain Pump
7. Ground to Outer Tub
8. Ground to Outer Tub Front
9. Ground to Outer Tub to Cabinet

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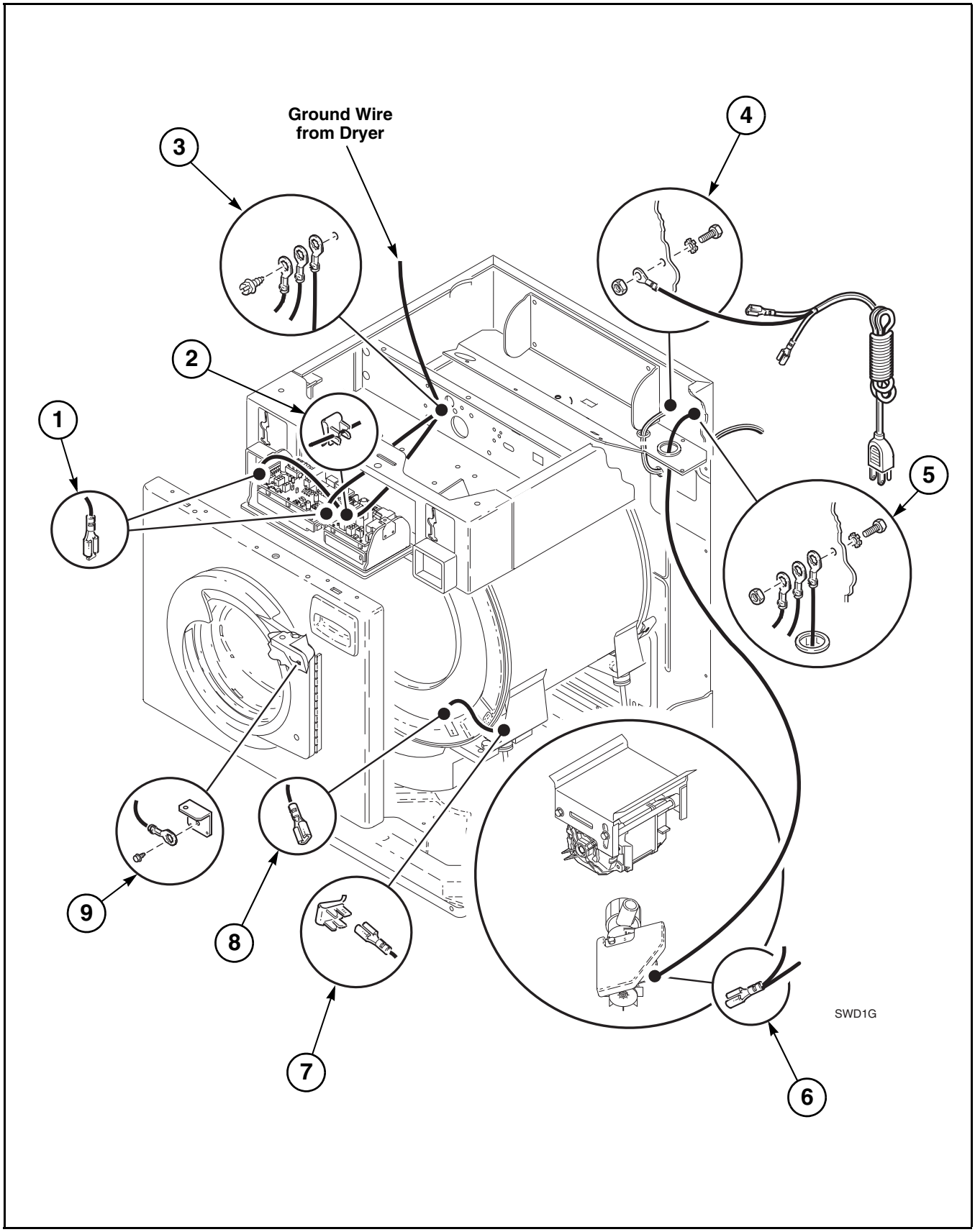

Figure 5

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

50. WASHER GROUND CONNECTIONS – WASHERS WITH SUFFIX 4350 IN MODEL NO.
Refer to *Figure 6*.

1. Ground to Electronic Controls
2. Ground to Control Panel Assembly
3. Ground to Control Cabinet
4. Ground Power Cord to Control Cabinet Wrapper
5. Grounding Hardware to Control Cabinet Wrapper
6. Ground to Electric Drain Pump
7. Ground to Outer Tub
8. Ground to Outer Tub Front
9. Ground to Outer Tub to Cabinet

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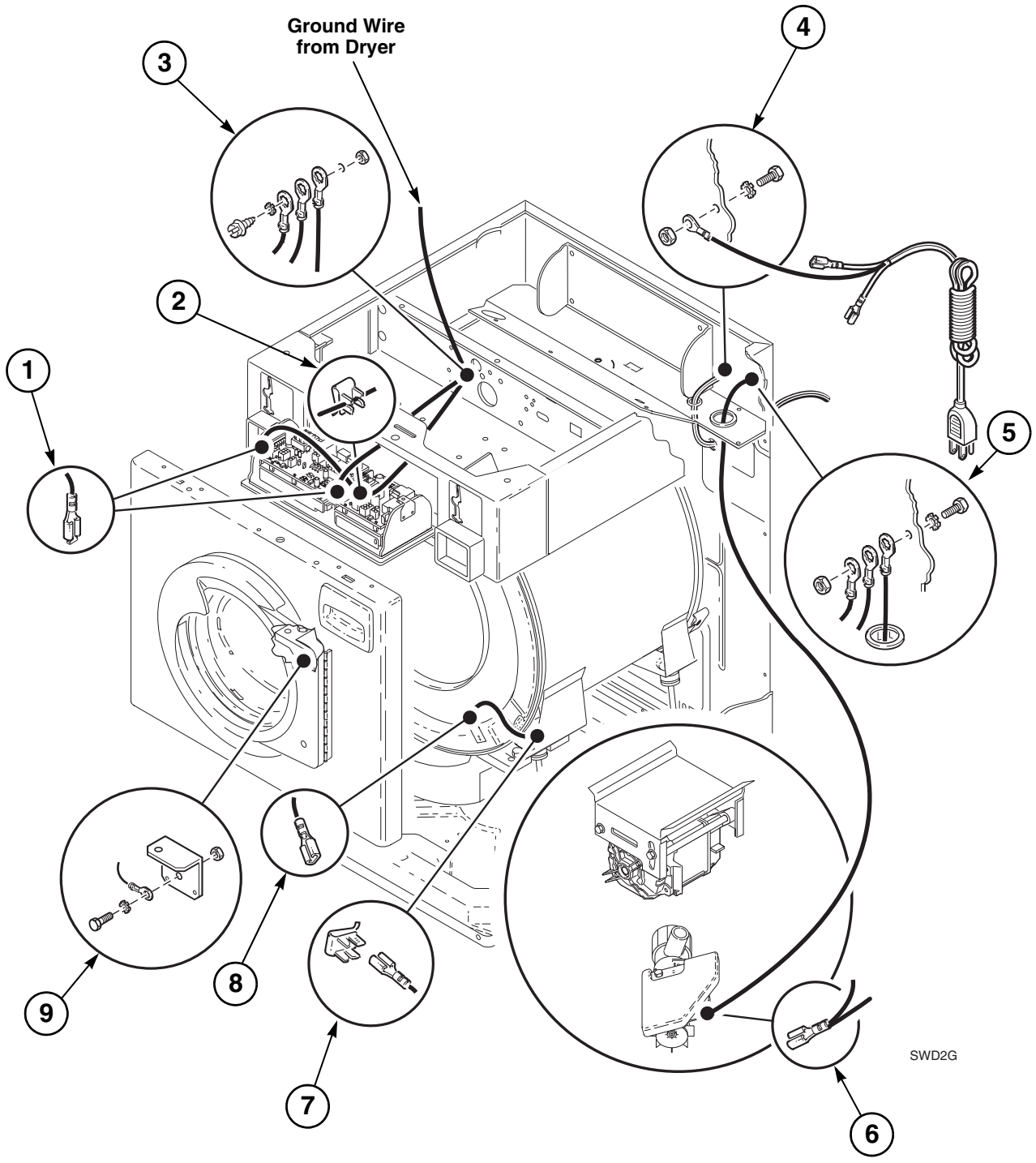

Washers with Suffix 4350 in Model No.

Figure 6

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

51. DRYER GROUND CONNECTIONS

Refer to *Figure 7*.

1. Terminal Block and Rear Bulkhead to Control Cabinet
2. Motor Terminal Block to Base
3. Motor to Base
4. Terminal Block and Rear Bulkhead to Control Cabinet to Control Panel
5. Ground to Electronic Controls
6. Ground to Control Panel Assembly

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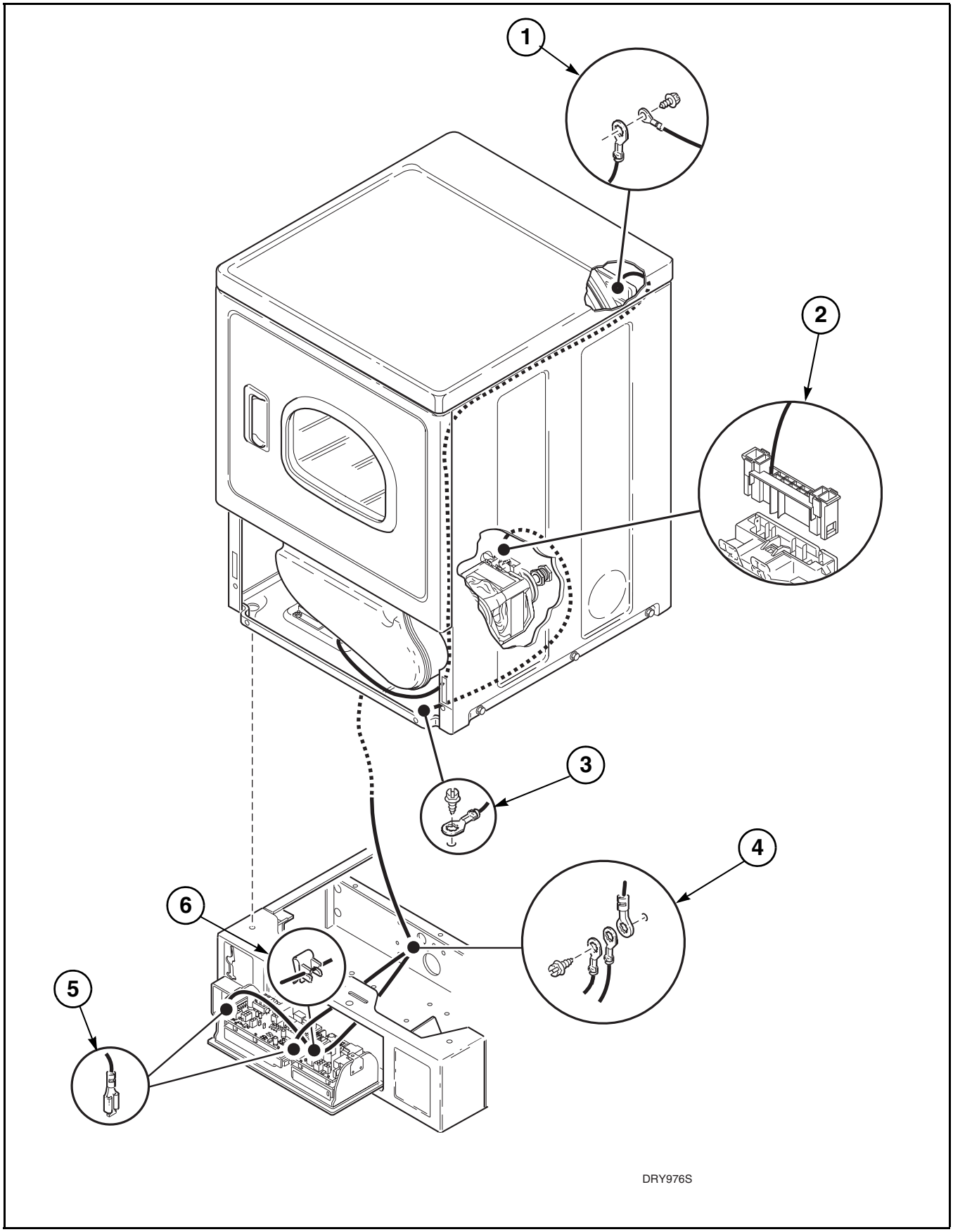

Figure 7

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Section 5
Service Procedures

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

IMPORTANT: When reference is made to directions (right or left) in this manual, it is from operator's position facing front of machine.

52. TO REMOVE THE DRYER

Refer to *Figure 8*.

IMPORTANT: Two people are required to perform this task.

a. Remove all electrical, gas and venting connections to dryer.
b. Remove front access panel on dryer.
c. Remove two 7/16 screws attaching dryer to washer.
d. Open control panel service door and disconnect molex plug.
e. Slide dryer forward, until leveling legs slide into notch on security cabinet.
f. Lift dryer and place on level surface.

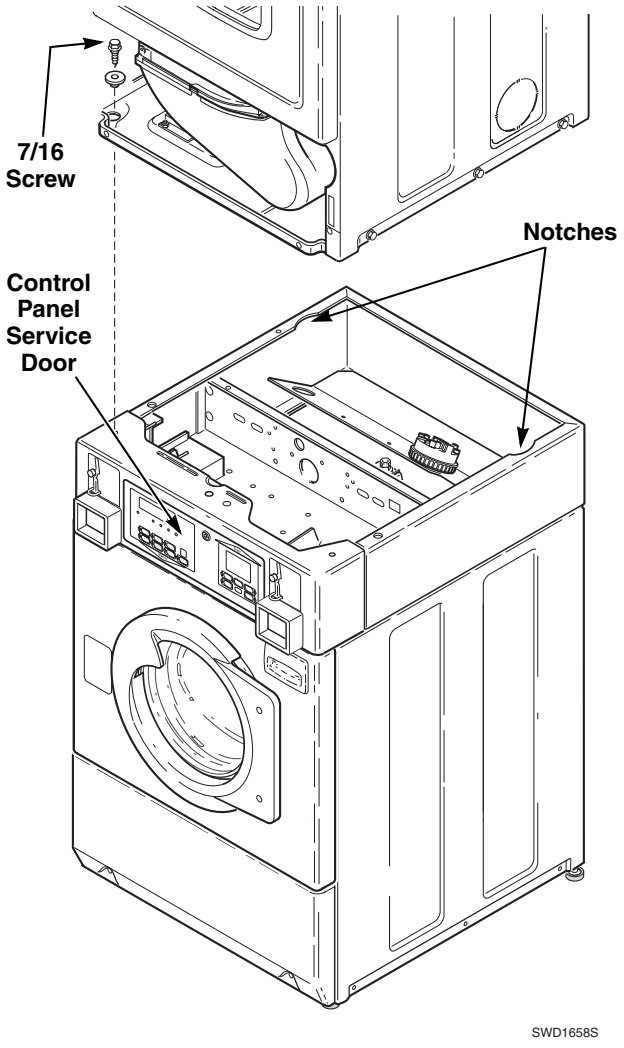

Figure 8

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

53. CONTROL PANEL

IMPORTANT: Due to the sensitivity of the electronic control, careful handling is required. As a precautionary measure, we recommend using a ground wrist strap when handling the electronic control. Wrist strap, cord and alligator clip are designed to carry away any electrostatic charge from your body and to direct charge to an available ground. By using this static protection device, potential electrostatic discharge problems associated with handling of electronic control will be minimized. Always handle electronic control by its metal edges. If a wrist strap is not available, touch machine while it is plugged in before handling control to dissipate any charge.

a. Unlock control panel. Refer to *Figure 9, Step 1*.

b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 9, Step 2*.

c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 9, Step 3*.

d. While supporting control panel, disconnect all wires and harness connectors from electronic control and indicator light.

NOTE: DO NOT pull on wires. Instead, hold board near appropriate disconnect block and unplug by pulling on disconnect block.

e. Remove ground clip holding ground wire to control panel.

NOTE: Refer to wiring diagram when reconnecting wires.

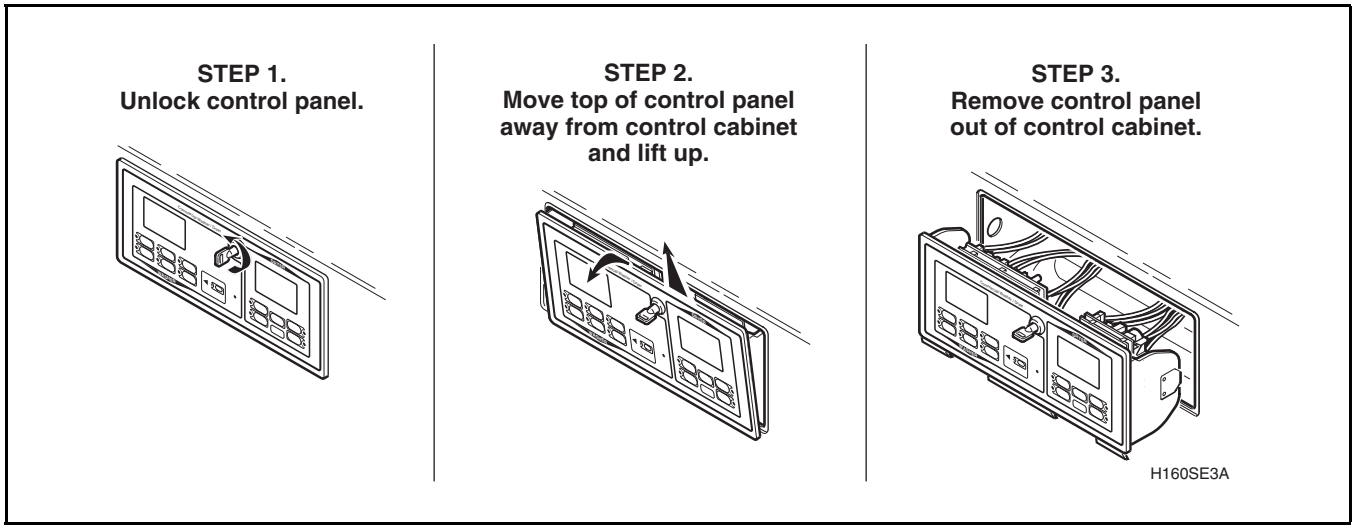
STEP 1.
Unlock control panel.
STEP 2.
Move top of control panel away from control cabinet and lift up.
STEP 3.
Remove control panel out of control cabinet.
H160SE3A

Figure 9

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

54. CONTROL CABINET

a. Remove dryer. Refer to *Paragraph 52*.
b. Remove screws holding control panel to control cabinet. Refer to *Figure 10*. Remove panel.
c. Remove screws holding control cabinet base to control cabinet. Refer to *Figure 10*.
d. Remove screws holding control shield (with controls attached) to bottom rear flange of control cabinet. Refer to *Figure 10*.
e. Remove screws holding control cabinet to top flange of side panels. Refer to *Figure 10*.
f. Carefully lift control cabinet assembly off washer.
g. Remove screws holding left, right and rear control cabinets together. Refer to *Figure 10*.

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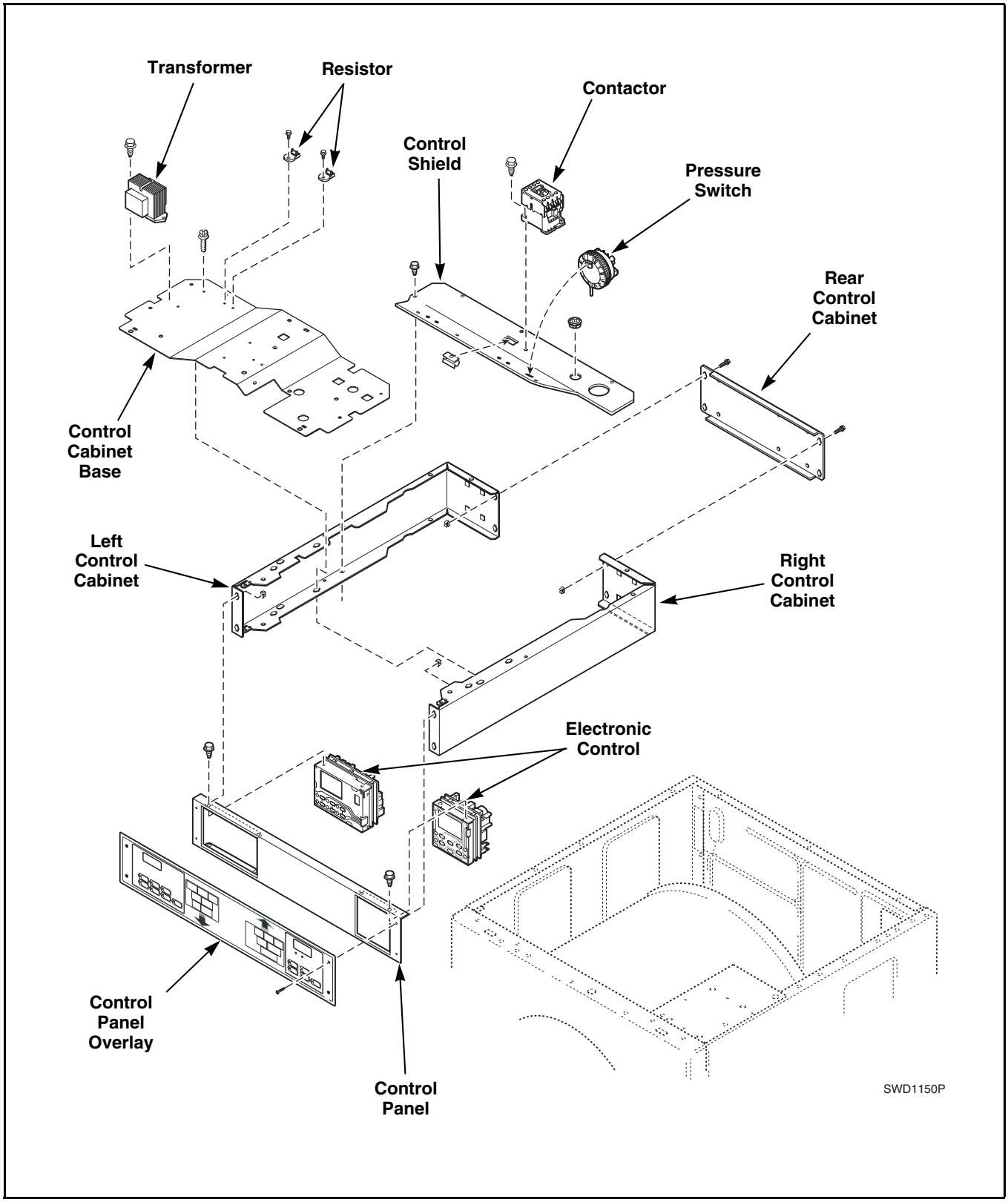

Figure 10

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

55. ELECTRONIC CONTROL

IMPORTANT: Due to the sensitivity of the electronic control, careful handling is required. As a precautionary measure, we recommend using a ground wrist strap when handling the electronic control. Wrist strap, cord and alligator clip are designed to carry away any electrostatic charge from your body and to direct charge to an available ground. By using this static protection device, potential electrostatic discharge problems associated with handling of electronic control will be minimized. Always handle electronic control by its metal edges. If a wrist strap is not available, touch machine while it is plugged in before handling control to dissipate any charge.

NOTE: New control is supplied in a special anti-static wrapping and protected by anti-static foam. While holding control by its metal edges, remove control from foam and wrapping.

a. Unlock control panel. Refer to *Figure 9, Step 1*.
b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 9, Step 2*.
c. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 9, Step 3*.
d. While supporting control panel, press in on locking tabs and unplug harness disconnect blocks from backside of electronic control.

NOTE: DO NOT pull on wires. Instead, hold board near appropriate disconnect block and unplug by pulling on disconnect block.

e. Remove four screws holding electronic control assembly to backside of control panel. Refer to *Figure 11*.
f. Place the old control in the anti-static wrapping that the new control was supplied in.
g. While holding new control by its metal edges, place control in opening of control panel and fasten control down with four screws removed in Step “e”. Refer to *Figure 11*.

NOTE: For proper control alignment, tighten the top two screws first then tighten the bottom screws. Refer to *Figure 11*.

h. Follow wiring diagram and reconnect wires to new control.

IMPORTANT: It is important to take care when handling the original control. It must be carefully placed in the anti-static wrapping and anti-static foam which was removed from new control. If control is not wrapped properly, warranty credit will not be issued.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

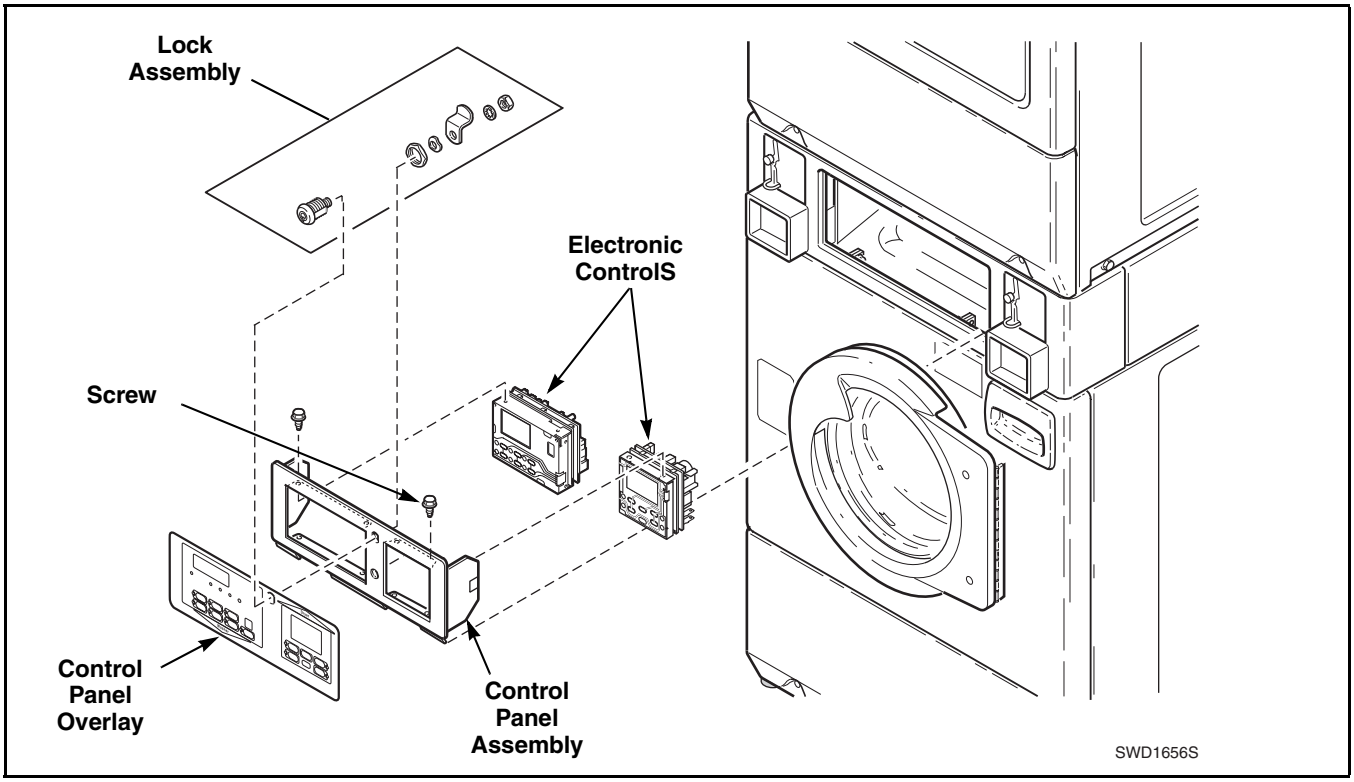

Figure 11

56. CONTROL PANEL OVERLAY

IMPORTANT: Due to the sensitivity of the electronic control, careful handling is required. As a precautionary measure, we recommend using a ground wrist strap when handling the electronic control. Wrist strap, cord and alligator clip are designed to carry away any electrostatic charge from your body and to direct charge to an available ground. By using this static protection device, potential electrostatic discharge problems associated with handling of electronic control will be minimized. Always handle electronic control by its metal edges. If a wrist strap is not available, touch machine while it is plugged in before handling control to dissipate any charge.

a. Removal:
   (1) Unlock control panel. Refer to *Figure 9, Step 1*.
   (2) Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 9, Step 2*.
   (3) Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 9, Step 3*.
   (4) Support control panel, press in on locking tabs and unplug harness disconnect blocks from backside of electronic control.

NOTE: DO NOT pull on wires. Instead, hold board near appropriate disconnect block and unplug by pulling on disconnect block.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

(5) Remove four screws holding electronic control assembly to backside of control panel. Refer to *Figure 11*.
(6) Remove lock assembly from control panel. Refer to *Figure 11*. Remove control panel overlay by peeling it from the control panel assembly.

NOTE: Control panel overlay has an adhesive backing.

b. Installation:

NOTE: Before removing protective backing from new overlay, check fit of overlay to control panel assembly. Refer to *Figure 11*. Use the lock hole in the control panel as the locating guide.

(1) Once panel overlay is fitted to the front of control panel frame, carefully peel protective backing from the left end of panel overlay and press into place.
(2) Remove rest of protective backing from panel overlay and press overlay into place on control panel assembly.
(3) While holding control by its metal edges, place control in opening of control panel and fasten control down with four screws. Refer to *Figure 11*.
(4) Follow wiring diagram and reconnect wires to control.

IMPORTANT: It is important to use care when handling the control.

(5) Reinstall control panel in control cabinet and lock control panel.

57. NON-ELECTRONIC COIN DROP

a. Removal:
(1) Unlock control panel. Refer to *Figure 9, Step 1*.
(2) Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet front. Refer to *Figure 9, Step 2*.
(3) Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 9, Step 3*.

NOTE: Carefully place protective padding around control panel assembly to keep panel assembly from damaging washer front panel during coin drop removal. Allow panel assembly to hang down supported by wire harness.

(4) Reach into control cabinet to feel position of coin drop.
(5) Disconnect coin drop harness at disconnect block.
(6) Use a 3/8 inch square drive socket, with number 310P4–quarter inch Ratchet Extension Tool, to remove two locknuts holding coin drop to front of control cabinet. Refer to *Figure 12*.

NOTE: A 3/8 inch square drive socket, size 7/16 inch, fits over end of the 310P4 Extension Tool. A 1/4 inch ratchet fits in the other end. Refer to *Figure 12*.

(7) Lift back end of coin drop and pull drop straight back until front edge of the drop's front face plate clears the two guide wires.
(8) Carefully slide drop straight back until drop clears inside wall of control cabinet. Carefully remove drop out through control panel opening.

b. Installation:
(1) Lift coin drop up on coin drawer housing.
(2) Line up holes in the front face plate of coin drop with the two guide wires. Slide coin drop forward, making sure guide wires are through holes in front face plate of coin drop.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

(3) Slide coin drop forward all the way until front face plate of coin drop is up against the control cabinet front, with the coin return stop completely through slot.

(4) Using a 3/8 inch square drive 7/16 inch socket with number 310P4 1/4 inch Ratchet Extension Tool, reinstall both locknuts and tighten locknuts firmly.

(5) Reconnect coin drop wire harness.

(6) Reinstall control panel in control cabinet and lock control panel.

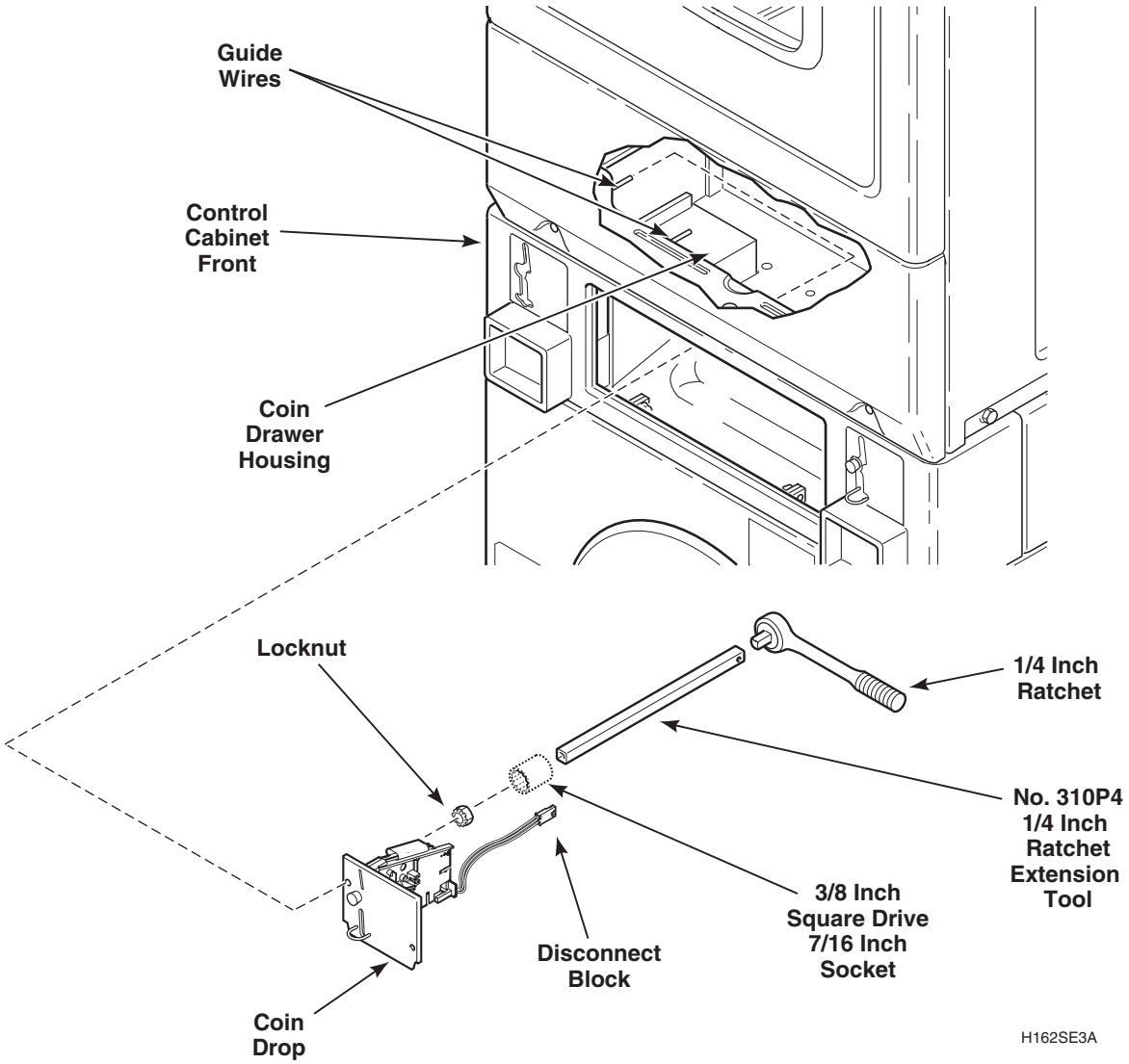

Figure 12

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

58. ELECTRONIC COIN DROP

NOTE: Electronic Coin Drop is only available for certain coin models ("A" or "X" in fourth position [i.e. STEX17]).

a. Removal:
   (1) Unlock control panel. Refer to *Figure 9, Step 1*.
   (2) Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet front. Refer to *Figure 9, Step 2*.
   (3) Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 9, Step 3*.
   (4) Reach into control cabinet to feel position of coin drop.
   (5) Disconnect wire harnesses from coin drop.
   (6) Using CK096 Mounting Tool Kit, slide mounting tool over guide wire and insert guide wire into hole in mounting tool (located on notched end of mounting tool). Refer to *Figure 13*.

NOTE: It is necessary to first slide opposite end of mounting tool through clearance holes in divider for easy access to guide wires. Refer to *Figure 13*.

   (7) Loosen nut attaching coin drop to guide wire. Use mounting tool handle for increased leverage. Refer to *Figure 13*.
   (8) Remove nut.
   (9) Repeat for other nut.
   (10) Slide coin drop off guide wires and remove from washer.

b. Installation:
   (1) Place coin drop into the control cabinet, align holes with guide wires, and slide into position.
   (2) Position the coin drop all the way to the front.
   (3) Place one nut, smooth end first, onto a guide wire and slide to front of coin drop. Slide mounting tool (from kit CK096) over guide wire and insert guide wire into hole in mounting tool (located on notched end of mounting tool).

NOTE: It is necessary to first slide opposite end of mounting tool through clearance holes in divider for easy access to guide wires. Refer to *Figure 13*.

   (4) Tighten nut with mounting tool, using mounting tool handle for increased leverage.
   (5) Repeat for other nut.
   (6) Check guide wire on right side for interference with coin return. If interference is found, the rod may need to be adjusted away from the drop.
   (7) Reconnect wire harnesses to coin drop.
   (8) Reinstall control panel in control cabinet and lock control panel.

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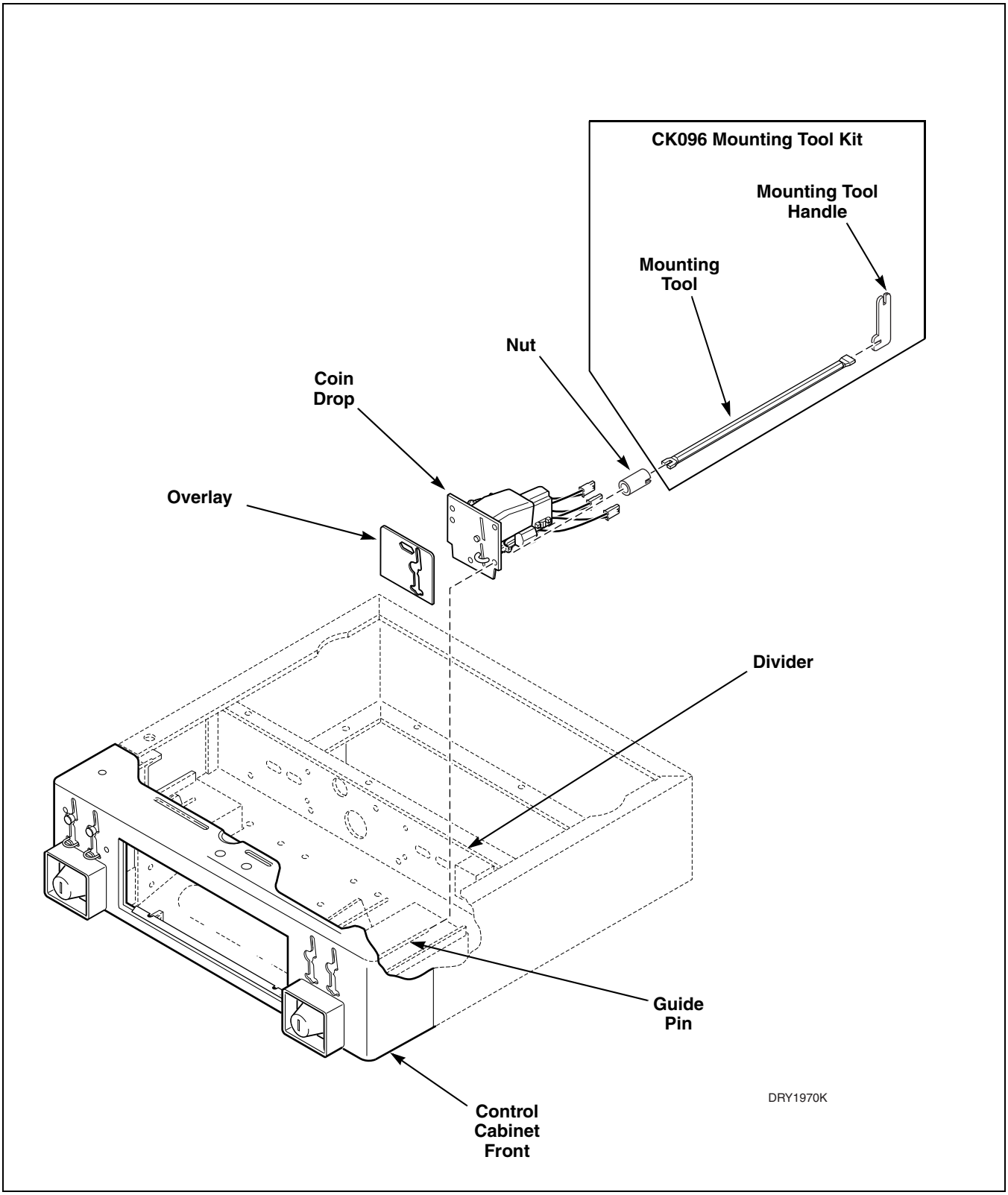

Figure 13

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

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59. CARD READER

NOTE: Card reader can be removed through control panel, but it may be easier to remove the dryer before attempting to remove the card reader. Refer to *Paragraph 52* for dryer removal.

After dryer has been removed:

a. Card reader removal:
   (1) Reach into control cabinet and disconnect card reader harness at disconnect block.
   (2) Use a 3/8 inch square drive socket, with number 310P4 1/4 inch Ratchet Extension Tool, to remove screws or nuts holding card reader to control cabinet front and carefully remove card reader out through top of control cabinet. Refer to *Figure 14*.

NOTE: A 3/8 inch square drive socket, size 7/16 inch, fits over end of the 310P4 Extension Tool. A 1/4 inch ratchet fits in the other end. Refer to *Figure 14*.

b. Card reader installation:
   (1) Carefully place card reader into opening in control cabinet front.
   (2) Using a 3/8 inch square drive 7/16 inch socket with number 310P4 1/4 inch Ratchet Extension Tool, secure card reader to control cabinet front with screws or nuts previously removed. Refer to *Figure 14*. Then tighten screws or nuts firmly.
   (3) Reconnect card reader harness.
   (4) Reinstall dryer.

Accessing card reader with dryer attached:

a. Card reader removal:
   (1) Unlock control panel. Refer to *Figure 9, Step 1*.
   (2) Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet front. Refer to *Figure 9, Step 2*.
   (3) Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 9, Step 3*.

NOTE: Carefully place protective padding around control panel assembly to keep panel assembly from damaging washer front panel during removal of card reader. Allow panel assembly to hang down supported by wire harness.

   (4) Reach into control cabinet to feel position of card reader.
   (5) Disconnect card reader harness at disconnect block.
   (6) Remove screws holding card reader to control cabinet front and carefully remove card reader out through control panel opening. Refer to *Figure 15*.

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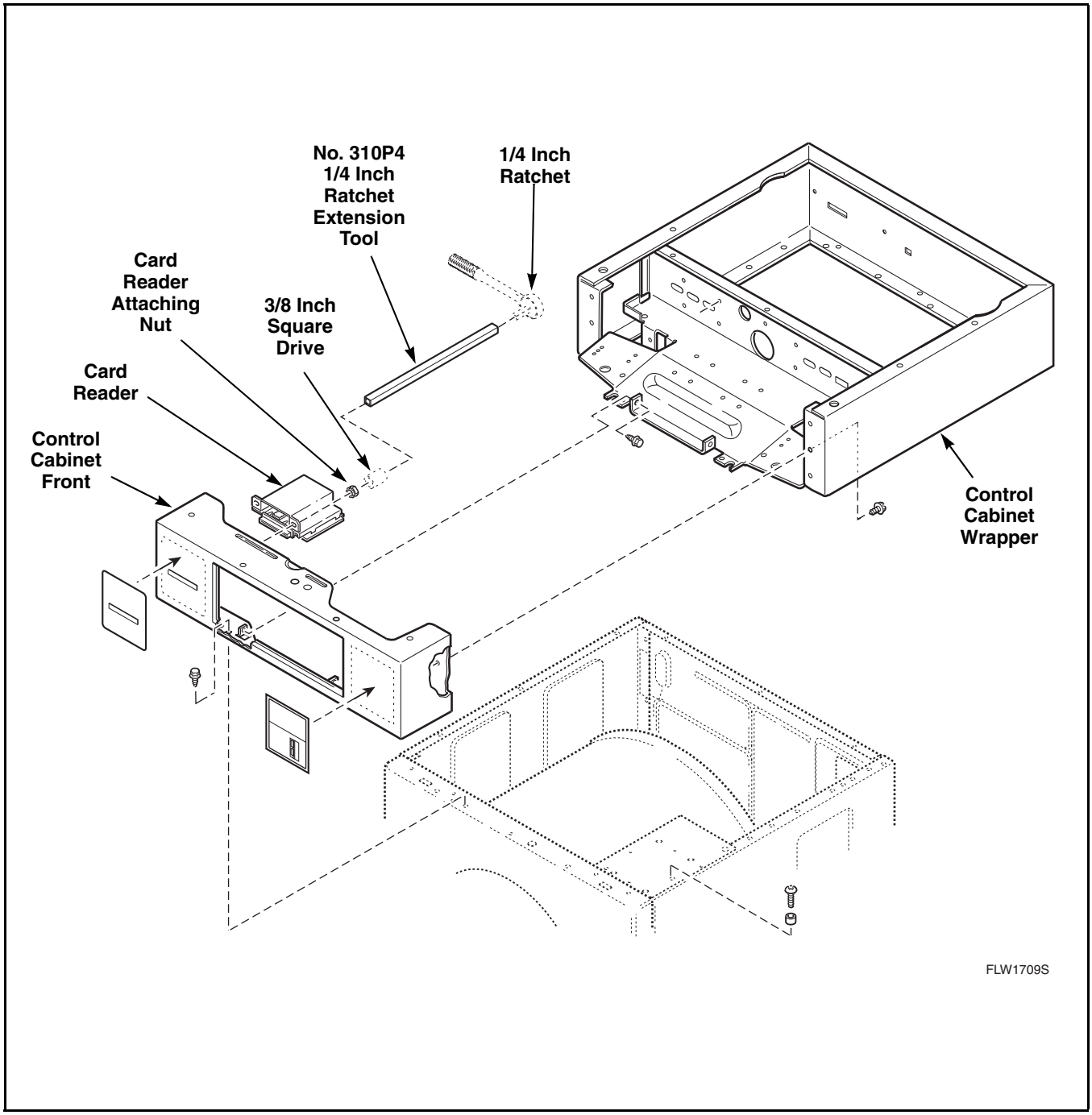

Figure 14

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

b. Card reader installation:
   (1) Carefully place card reader into opening in control cabinet front. Refer to *Figure 15*.
   (2) Secure card reader to control cabinet front using screws previously removed. Then tighten screws firmly.
   (3) Reconnect card reader harness.
   (4) Reinstall control panel in control cabinet and lock control panel.

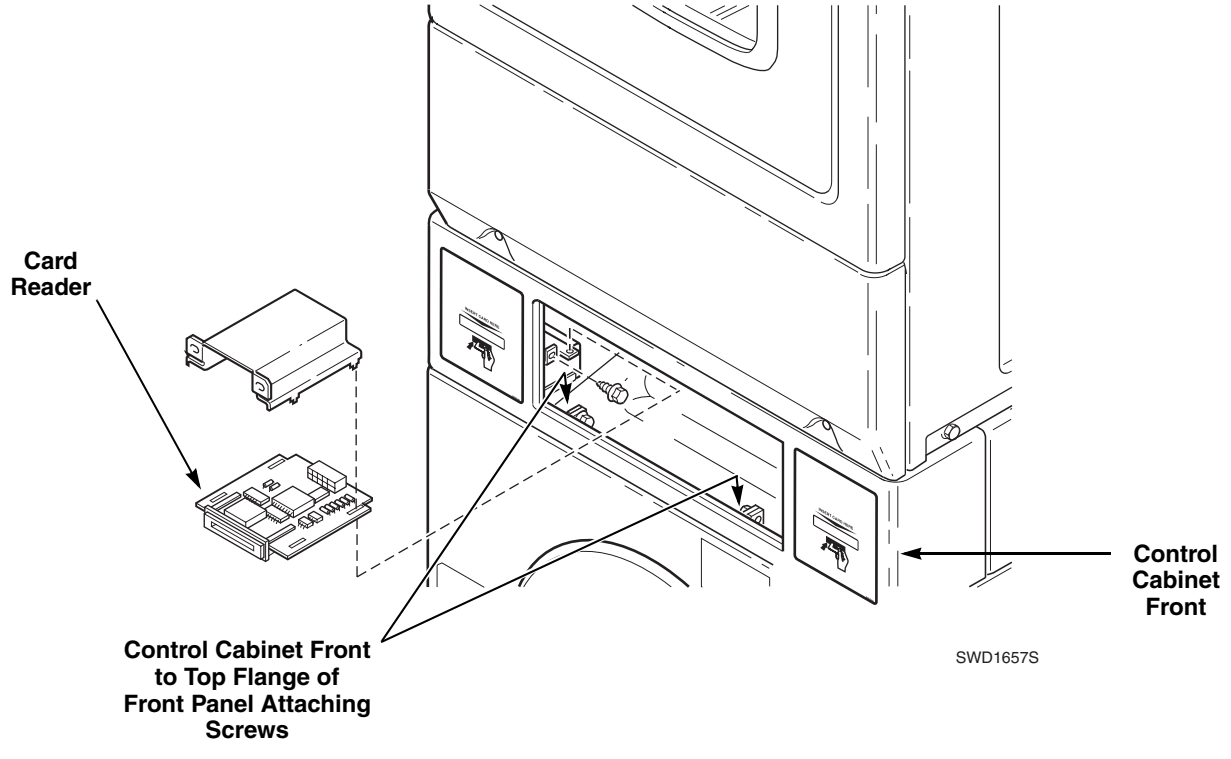

Figure 15

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

60. PRESSURE SWITCH

a. Go to rear of washer and remove screws holding rear access panel to rear of control cabinet. Refer to *Figure 16*.

b. Tilt access panel back far enough to disengage bottom of access panel from opening in control cabinet.

c. Disconnect wires from pressure switch at disconnect block.

d. Disconnect pressure hose from pressure switch.

IMPORTANT: When installing pressure switch, blow air into hose before connecting hose to switch to remove any moisture that may have accumulated in hose.

e. Squeeze locking tabs in on pressure switch and push switch out toward rear of control shield. Refer to *Figure 16*.

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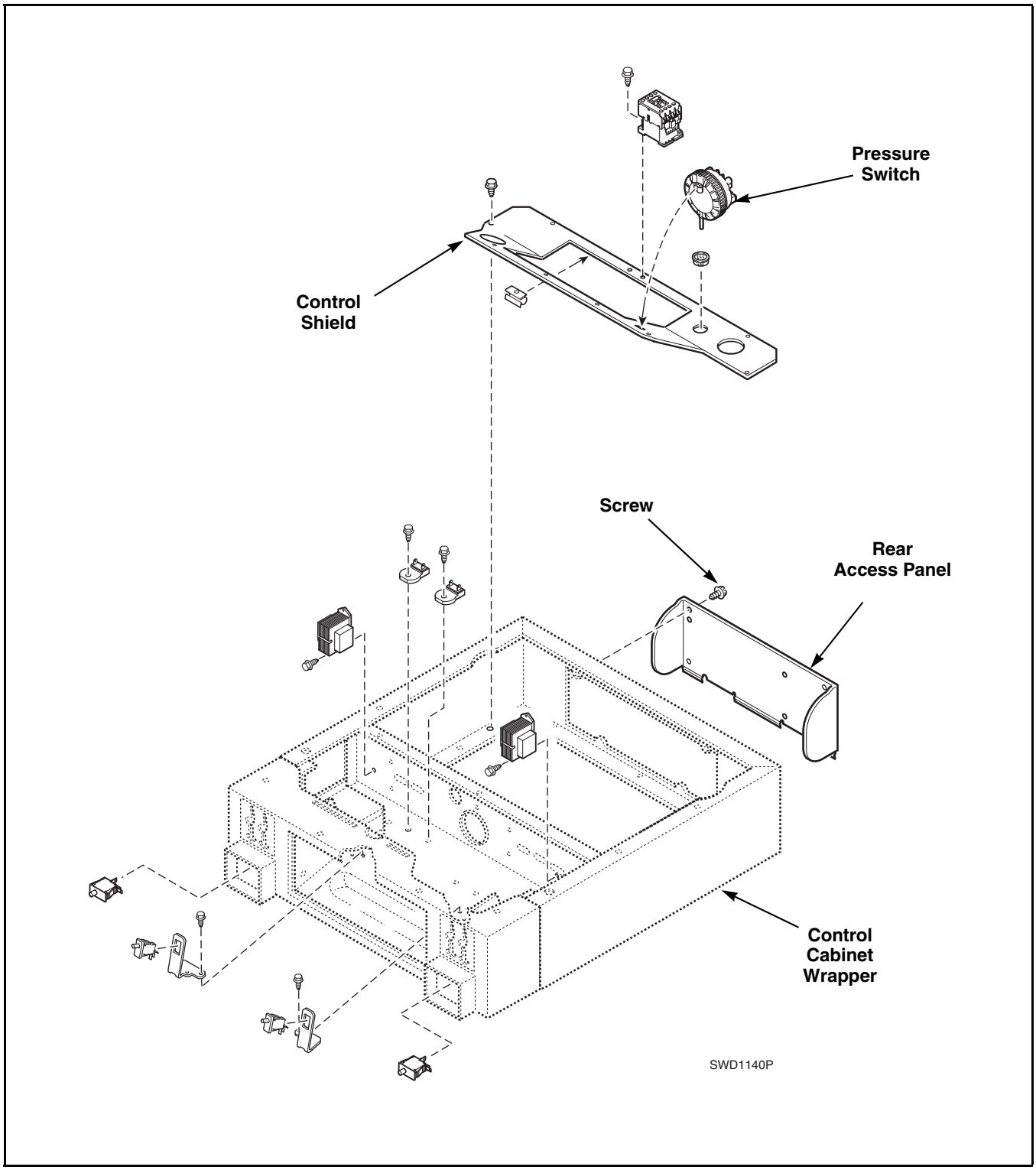

Figure 16

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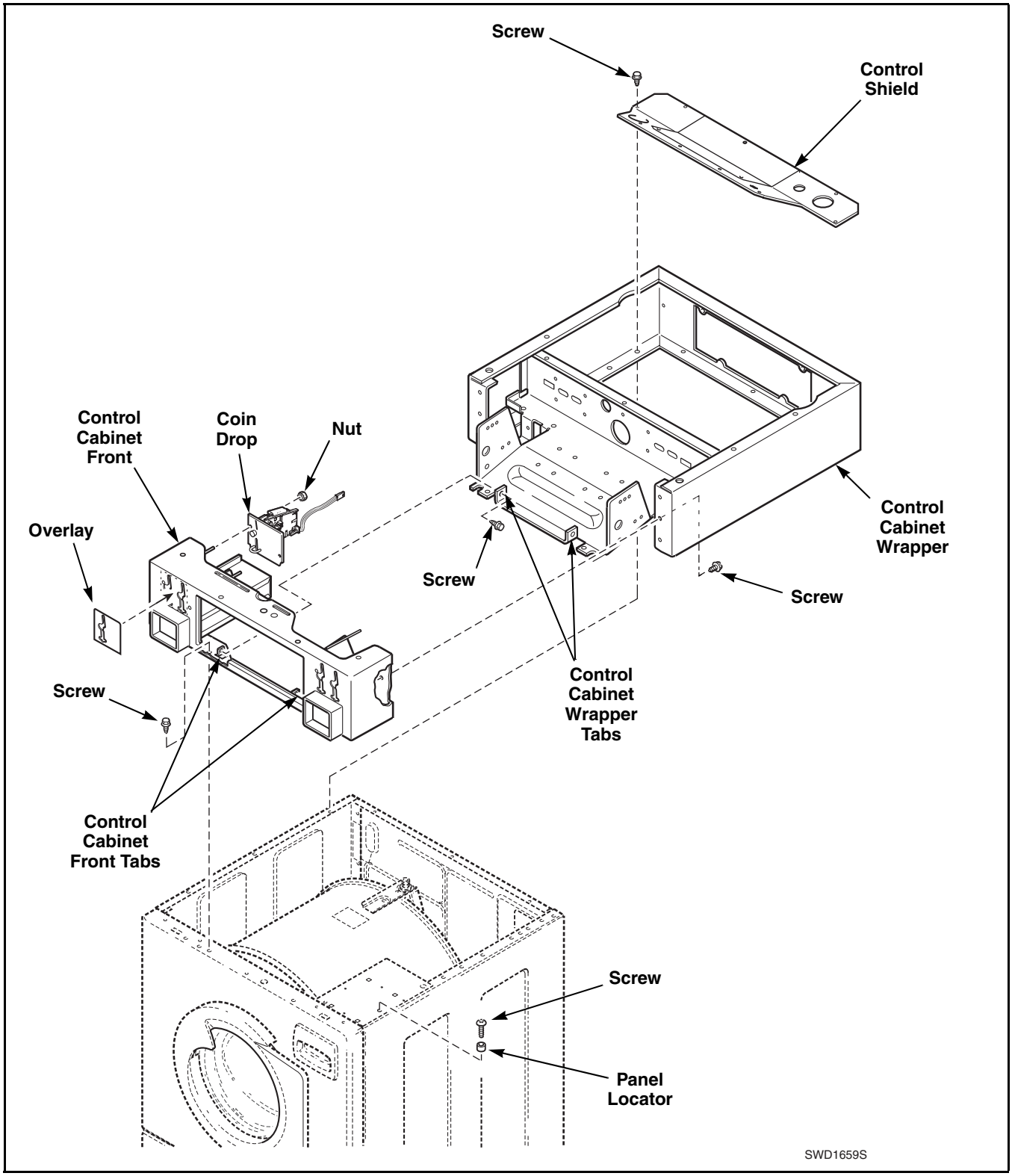

Figure 17

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

61. CONTROL CABINET FRONT

a. Remove dryer. Refer to *Paragraph 52*.
b. Unlock control panel. Refer to *Figure 9*, *Step 1*.
c. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 9*, *Step 2*.
d. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 9*, *Step 3*.
e. Remove two screws holding bottom front flange of control cabinet front to top flange of washer front panel. Refer to *Figure 17*.
f. Remove three screws (per side) holding control cabinet front to front flange of control cabinet wrapper. Refer to *Figure 17*.
g. Remove two screws holding control cabinet wrapper tabs to control cabinet front tabs. Refer to *Figure 17*.
h. Carefully pull control cabinet front straight out and away from control cabinet wrapper. Refer to *Figure 17*.

62. CONTROL CABINET WRAPPER

a. Remove dryer. Refer to *Paragraph 52*.
b. Unlock control panel. Refer to *Figure 9*, *Step 1*.
c. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 9*, *Step 2*.
d. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 9*, *Step 3*.
e. Remove screws holding control shield (with controls attached) to bottom rear flange of control cabinet wrapper. Refer to *Figure 17*.
f. Remove screws holding control cabinet wrapper to top flange of side panels. Refer to *Figure 17*.
g. Carefully lift control cabinet assembly off washer and set out of the way.

63. TERMINAL BLOCK PANEL (Models with Suffix 4064 or 4067 in Model No.)

a. Go to rear of machine.
b. Remove access panel located on control cabinet. Refer to *Figure 18*.
c. Remove wires from components.
d. Remove screws holding components to terminal block panel. Refer to *Figure 18*.

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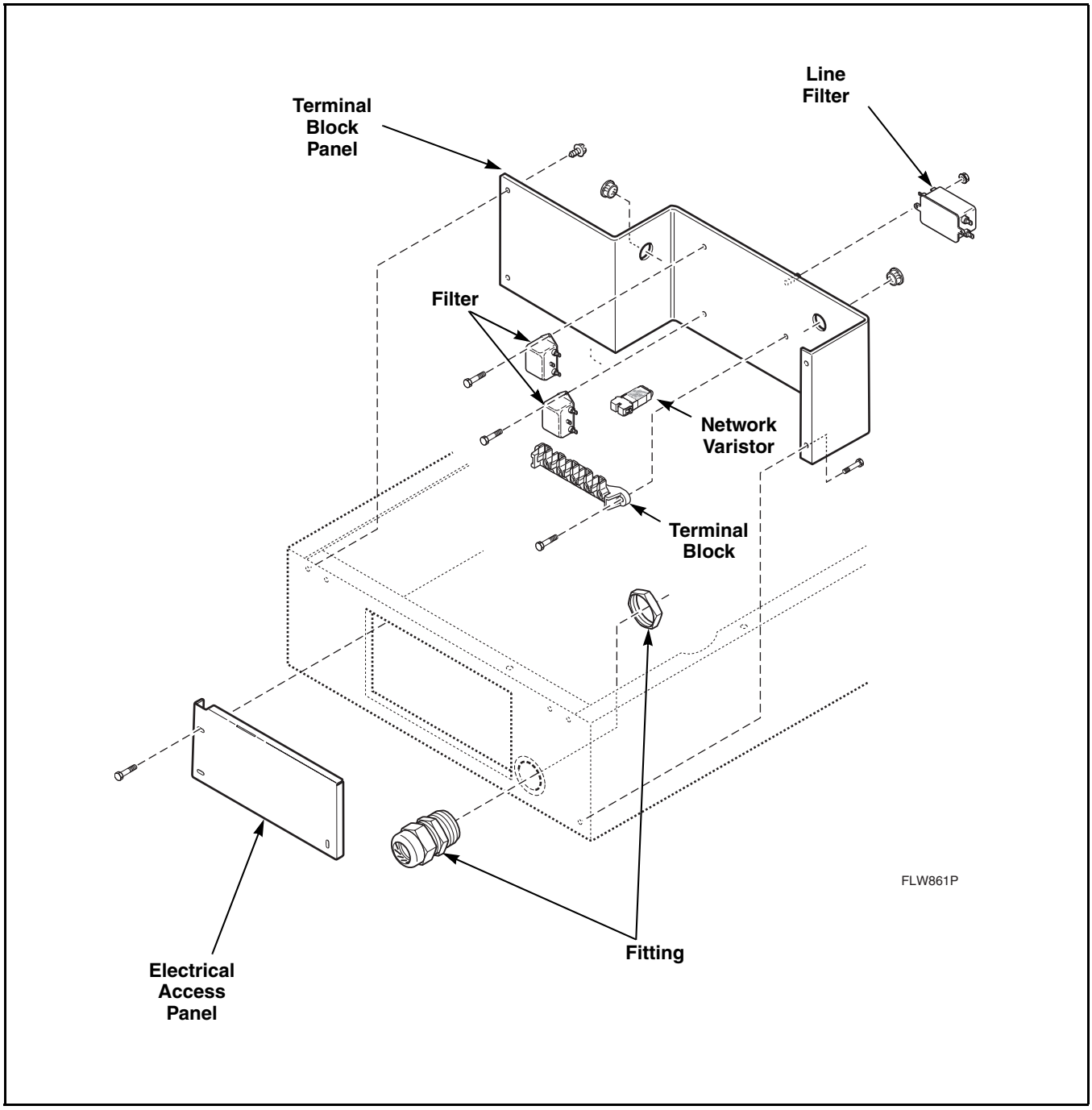

Figure 18

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

64. WASHER LOWER ACCESS PANEL

a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 19*.

b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.

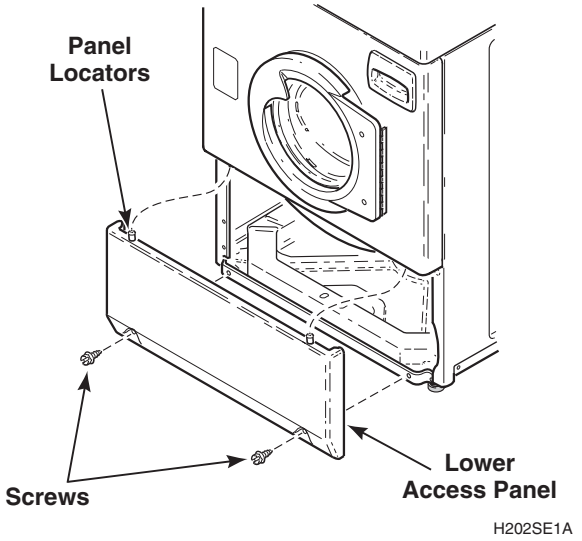

Figure 19

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

65. INVERTER CONTROL

IMPORTANT: Due to the sensitivity of the inverter control, careful handling is required. As a precautionary measure, we recommend using a ground wrist strap when handling the inverter control. Wrist strap, cord and alligator clip are designed to carry away any electrostatic charge from your body and to direct charge to an available ground. By using this static protection device, potential electrostatic discharge problems associated with handling of inverter control will be minimized. Always handle inverter control by its metal edges. If a wrist strap is not available, touch machine while it is plugged in before handling control to dissipate any charge.

NOTE: New control is supplied in a special anti-static wrapping and protected by anti-static foam. While holding control by its metal edges, remove control from foam and wrapping.

a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 19*.
b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.
c. Remove screws holding left cabinet brace to washer and remove brace. Refer to *Figure 20*.
d. Remove screws holding plastic shield to control.
e. Remove shield.
f. Press in on locking tabs and unplug harness disconnect blocks and all wires from inverter control.

NOTE: DO NOT pull on wires, instead, hold board near appropriate disconnect block and unplug by pulling on disconnect block.

g. Remove screws holding inverter control to base of washer. Refer to *Figure 20*.
h. Place old control in the anti-static wrapping that new control was supplied in.

IMPORTANT: It is important to take care when handling the original inverter control. It must be carefully placed in the anti-static wrapping and anti-static foam which was removed from new inverter control. If inverter control is not wrapped properly, warranty credit will not be issued.

i. Position the new inverter control on base of washer as shown in *Figure 20*. Reinstall screws (removed in Step "f") and tighten firmly.
j. Follow the wiring diagram and reconnect wires and harness disconnect blocks to new inverter control.
k. Secure wires to base and motor using new wire ties. Refer to *Figure 20*.
l. Reinstall plastic shield over new control.

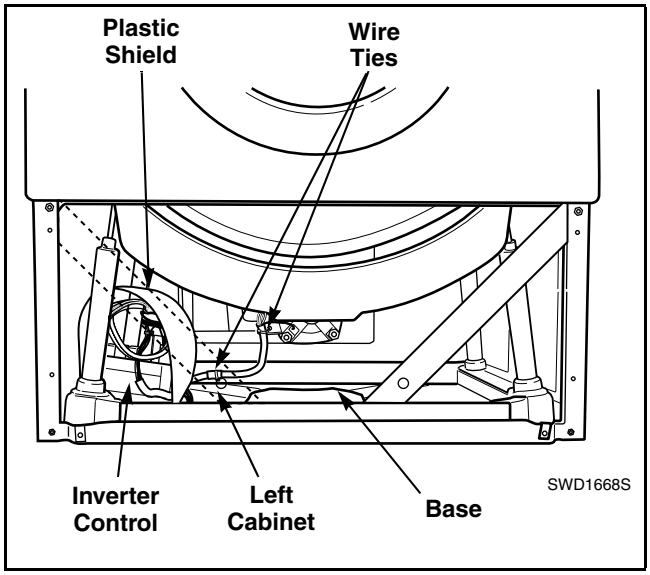

Figure 20

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

66. ELECTRIC DRAIN PUMP

a. While supporting the lower access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 19*.

IMPORTANT: There will always be some water that will remain in the pump and hoses. Therefore, before removing hoses from pump, hoses must be drained to prevent water spillage.

b. Loosen hose clamps and remove two hoses connected to electric drain pump (outer tub-to-pump hose and drain hose). Refer to *Figure 21*.

c. Disconnect wires from drain pump.

NOTE: Refer to wiring diagram when rewiring drain pump.

d. Remove three mounting screws holding pump to base and remove pump out through front of washer. Refer to *Figure 21*.

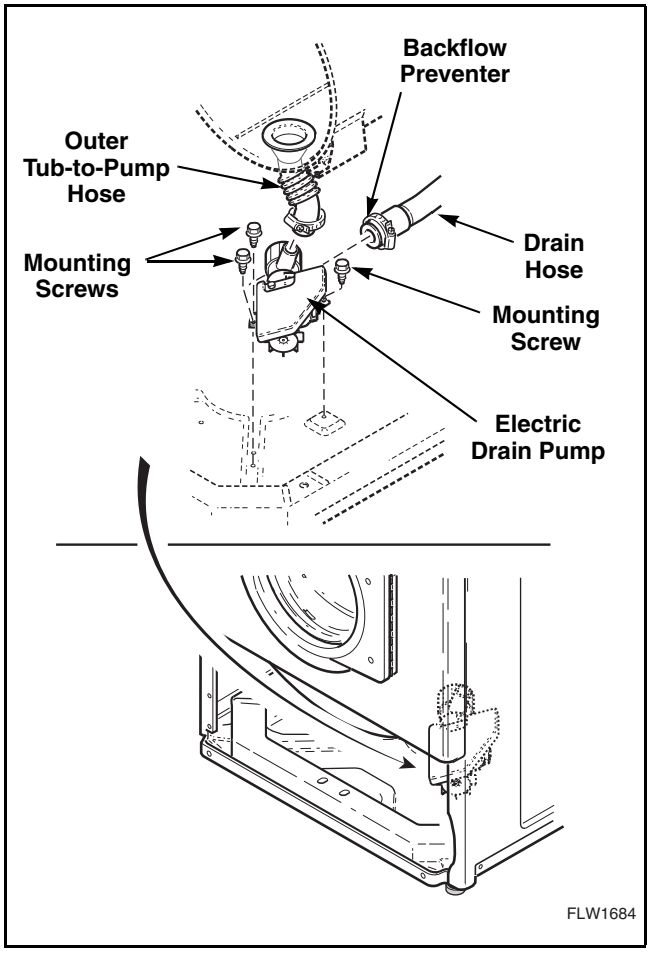

Figure 21

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

67. WASHER BELT

a. Go to rear of machine and remove screws holding lower rear access panel to rear panel and remove access panel. Refer to *Figure 22*.

b. Run belt off pulley while slowly turning pulley. Refer to *Figure 22*.

c. Remove belt from motor shaft.

NOTE: When installing belt, adjust belt tension. Refer to *Paragraph 109*.

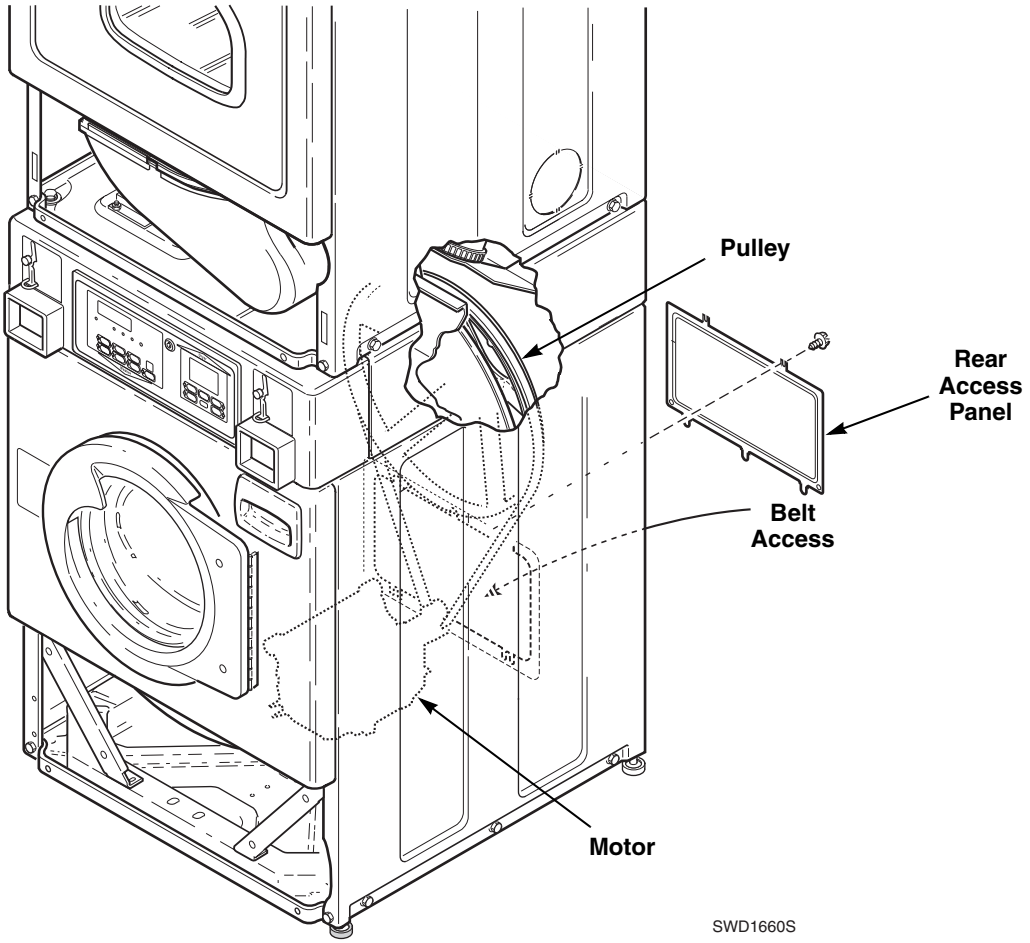

Figure 22

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

68. MIXING VALVE

NOTE: Mixing valve is located on upper back right corner of rear panel. Refer to *Figure 23*.

a. Shut off external hot and cold water supply and remove two inlet hoses.
b. Go to rear of washer and remove screw holding mixing valve and plate to rear panel, then remove valve and plate out through opening in rear panel. Refer to *Figure 23*.
c. Remove screws holding valve to mixing valve plate. Refer to *Figure 23*.
d. Loosen hose clamp and remove mixing valve-to-dispenser hose at the mixing valve. Refer to *Figure 23*.
e. Remove wire harness disconnect blocks from mixing valve solenoid terminals. Refer to *Figure 23*.

NOTE: Refer to wiring diagram when rewiring solenoids.

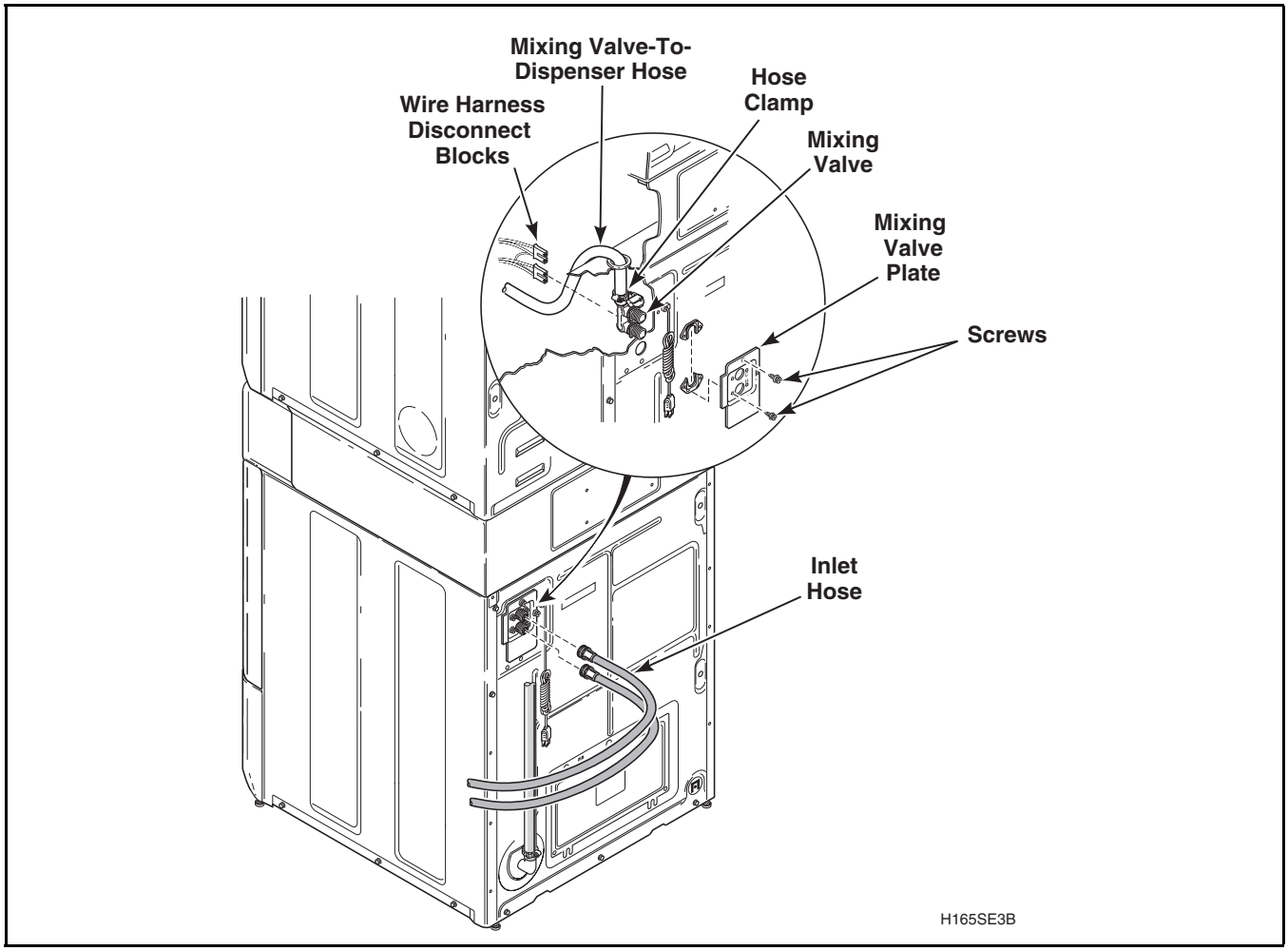

Figure 23

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

69. WASHER FRONT PANEL

a. Open loading door. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is in 6 o'clock position. Refer to *Figure 27*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

b. Grasp loading door seal lip. Refer to *Figure 25, Step 1*.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

c. Using a circular motion, pull seal up (*Figure 25*, *Step 1*), out (*Figure 25*, *Step 2*), and down (*Figure 25*, *Step 3*).

d. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 25*, *Step 4*.

NOTE: The ease of installation of the loading door seal can be improved using water or soapy solution to work seal around circumference of loading door. Be sure to orientate seal with the tab in the 12 o'clock position when installing the wire clamp ring to front panel. Be careful not to overstretch tension spring.

e. While supporting lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 19*.

f. Gently lower access panel to disengage panel locators from bottom edge of front panel.

g. Using the special tool, No. 318P4, remove the dispenser drawer. Refer to *Figure 24*.

h. Unlock control panel. Refer to *Figure 9, Step 1*.

i. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 9, Step 2*.

j. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 9, Step 3*.

k. Working through control panel opening, remove two screws holding bottom flange of control cabinet front to top flange of front panel. Refer to *Figure 17*.

l. Remove bottom two front corner screws. Refer to *Figure 26*.

m. Remove front panel (with loading door attached) away from washer as far as wires permit.

n. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 26*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: Door seal hose and wire harness must be reinstalled in the appropriate clips and holes along top flange of front panel. Refer to *Figure 29*.

IMPORTANT: Before reinstalling door and front panel assembly, make sure the door catch lines up with the door latch switch. If adjustment is required, refer to *Paragraph 110*.

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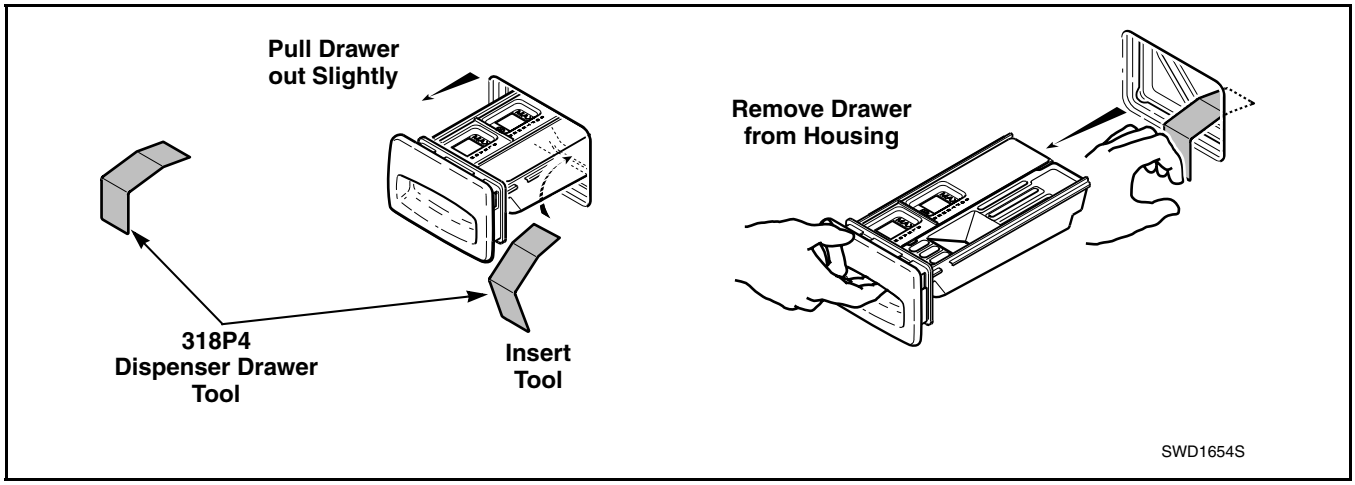

Figure 24

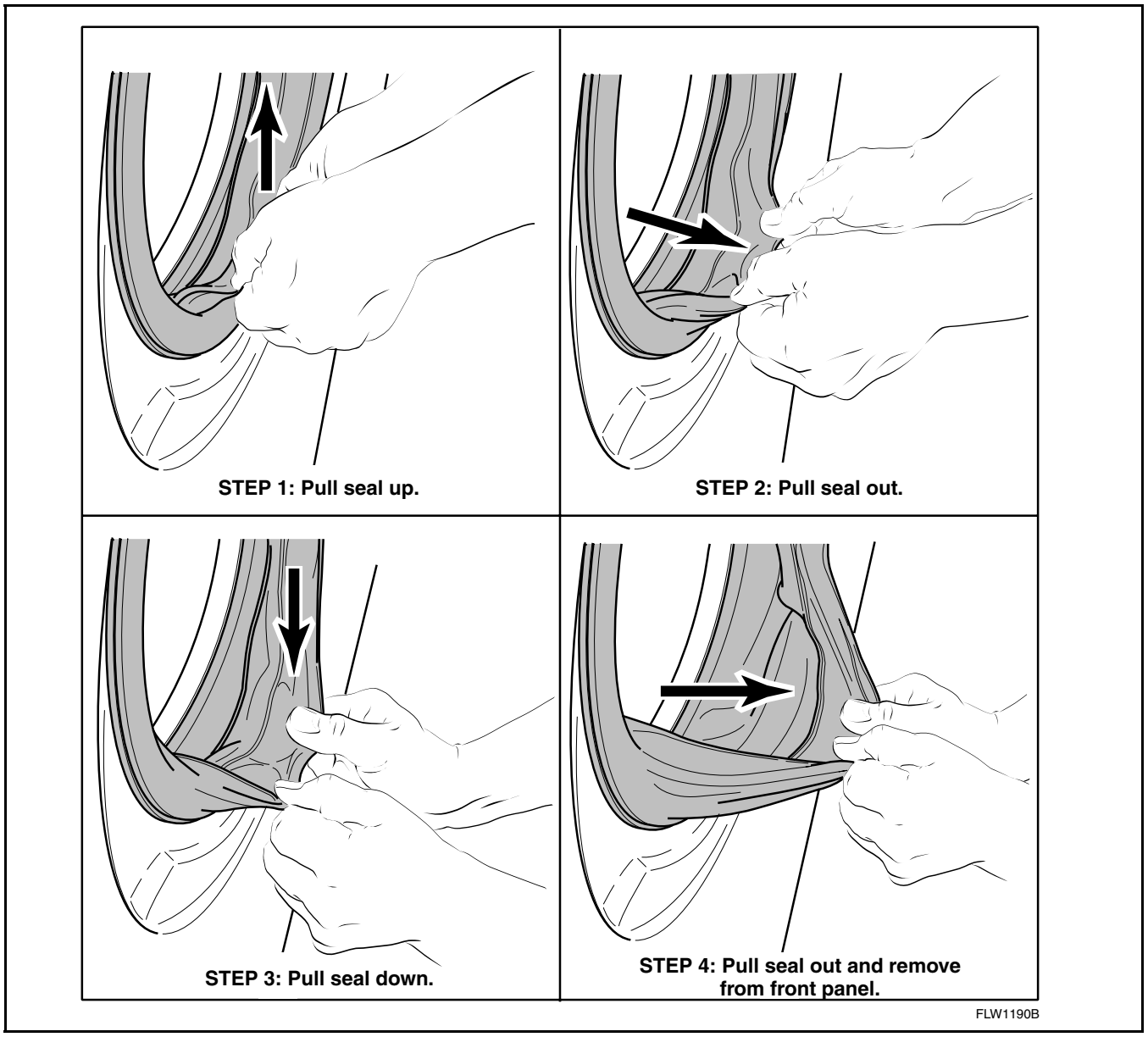

Figure 25

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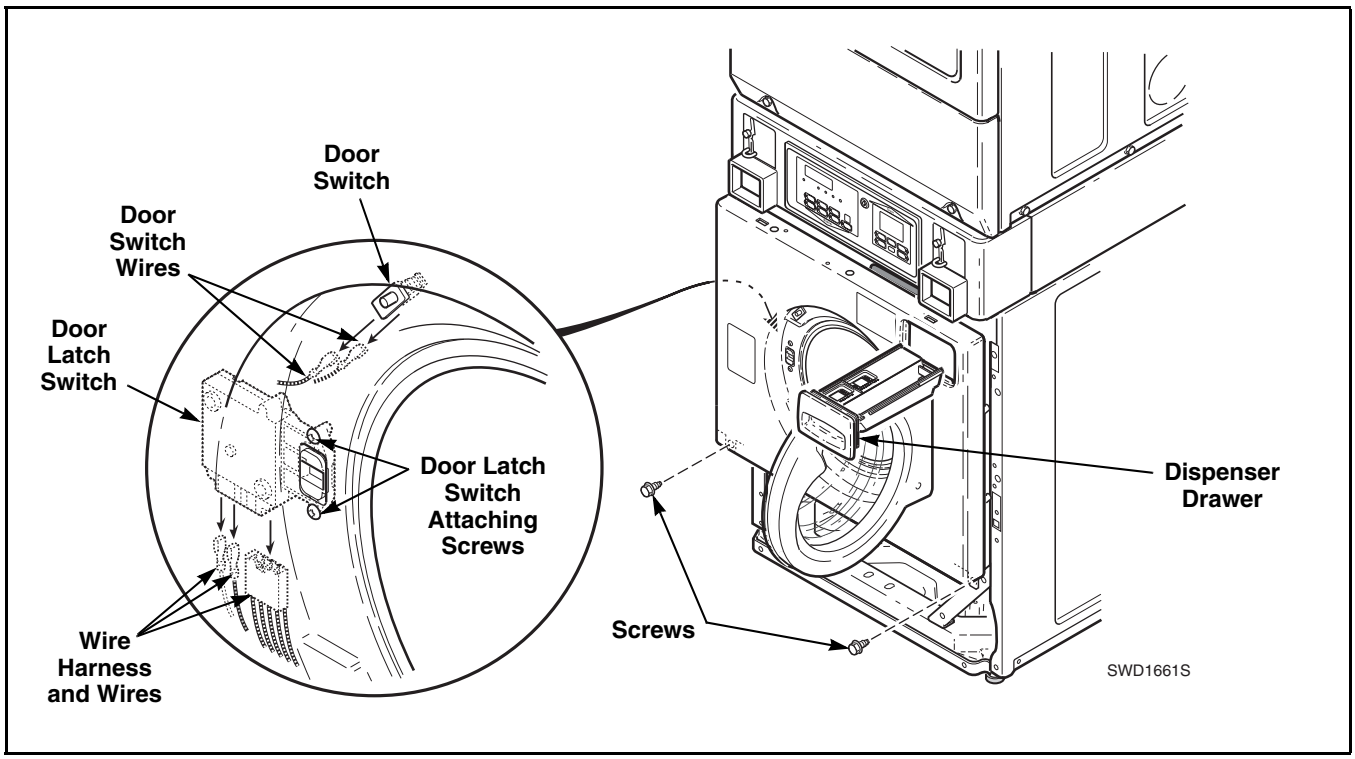

Figure 26

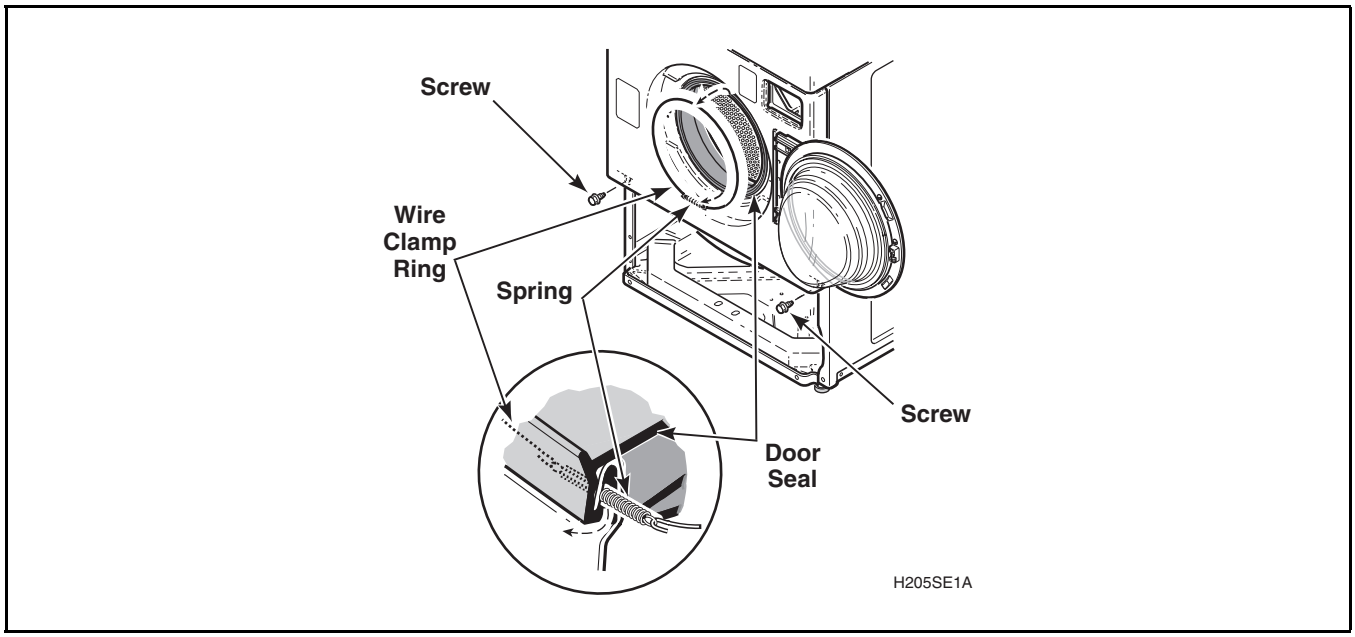

Figure 27

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

70. WASHER LOADING DOOR

a. Unlatch and open loading door.

b. Remove door bezel by removing screws holding door bezel to inner door and glass. Refer to *Figure 28*.

c. While supporting loading door, remove screws, lockwashers and nuts holding loading door to hinge assembly and remove door. Refer to *Figure 28*.

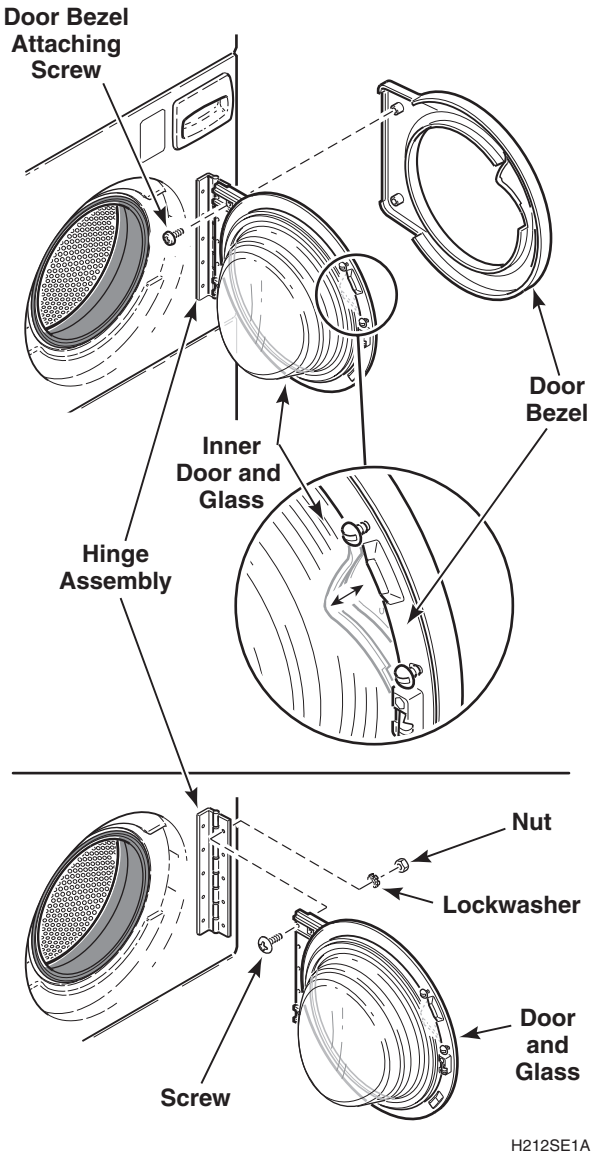

Figure 28

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

71. WASHER DOOR SEAL AND HOSE ASSEMBLY

a. Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 24*.

b. Open loading door. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is in 6 o'clock position. Refer to *Figure 27*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

c. Grasp loading door seal lip. Refer to *Figure 25, Step 1*.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

d. Using a circular motion, pull seal up (*Figure 25*, *Step 1*), out (*Figure 25*, *Step 2*), and down (*Figure 25*, *Step 3*).

e. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 25*, *Step 4*.

f. Unlock control panel. Refer to *Figure 9, Step 1*.

g. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off the rail support of the control cabinet. Refer to *Figure 9, Step 2*.

h. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 9, Step 3*.

i. Reach in through control panel opening and remove two screws holding bottom front flange of control cabinet front to top flange of washer front panel. Refer to *Figure 17*.

j. While supporting lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 19*.

k. Gently lower access panel to disengage panel locators from bottom edge of front panel.

l. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 26*. Remove front panel (with loading door attached) away from washer as far as wire permit.

m. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 29*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

n. Loosen hose clamp and remove door seal hose connection at the dispenser. Refer to *Figure 29*.

o. Cut hose tie strap that holds door seal to dispenser plate.

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 29*.

p. Loosen large clamp holding seal to front of outer tub. Slide seal off front of outer tub and remove seal.

NOTE: The ease of installation of loading door seal can be improved using water or soap solution to work seal around the circumference of loading door. Be sure to orientate seal with tab in the 12 o'clock position when installing wire clamp ring to the front panel. Be careful not to overstretch tension spring.

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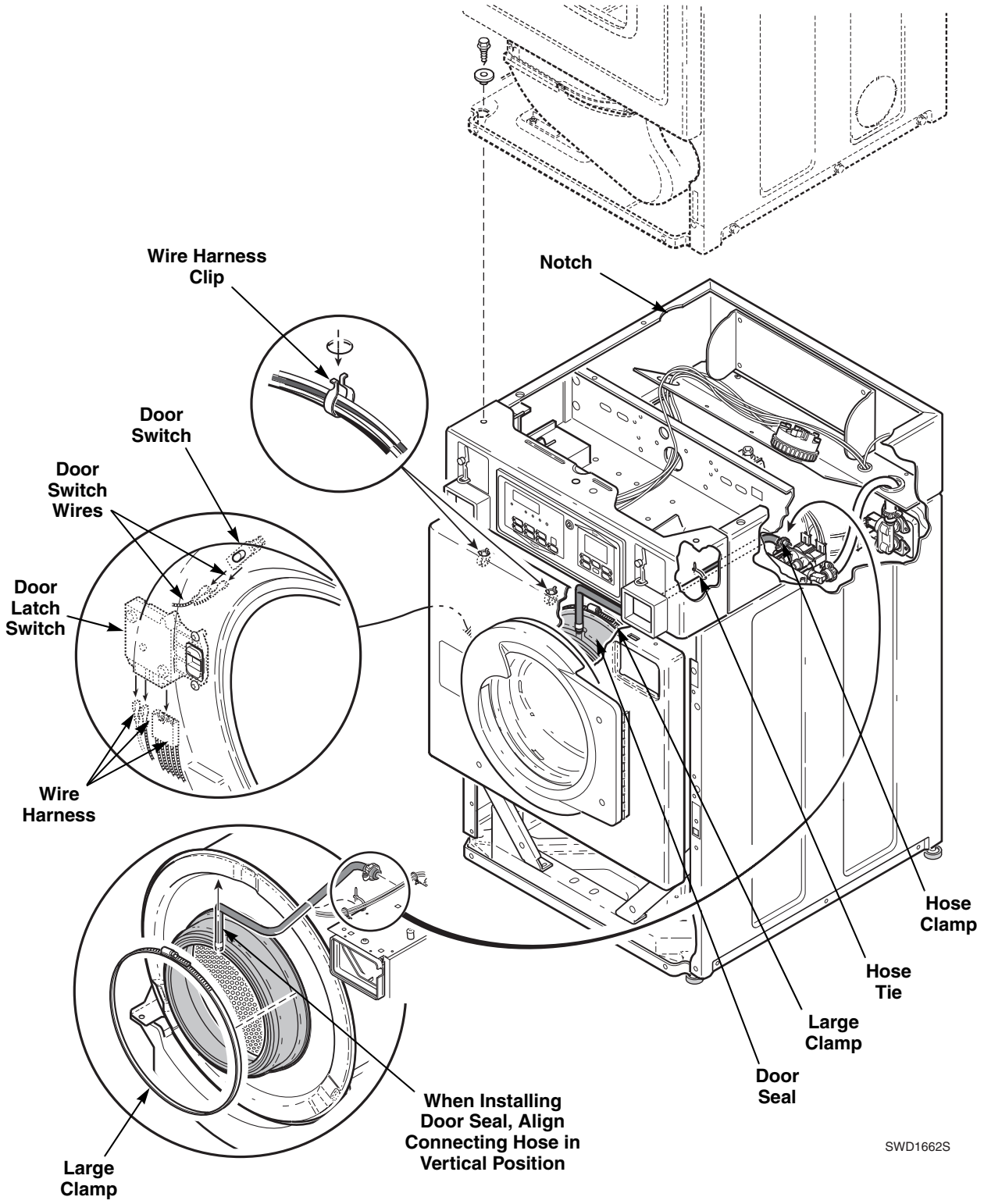

Figure 29

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WARNING

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

72. WASHER DOOR SWITCH

a. Open loading door.

b. Carefully remove wire clamp ring from groove with small flat screwdriver. Spring is located in the 6 o'clock position. Refer to *Figure 27*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

c. Grasp loading door seal lip. Refer to *Figure 25, Step 1*.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

d. Using a circular motion, pull seal up (*Figure 25*, *Step 1*), out (*Figure 25*, *Step 2*), and down (*Figure 25*, *Step 3*).

e. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 25*, *Step 4*.

f. Reach up between door seal and front panel. Refer to *Figure 26*. Press in on switch locking tabs and push switch out through front panel only far enough to allow removal of wires from switch terminals.

IMPORTANT: Refer to wiring diagram when rewiring switch.

73. WASHER DOOR LATCH SWITCH

a. Open loading door.

b. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is located in the 6 o'clock position. Refer to *Figure 27*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

c. Grasp loading door seal lip. Refer to *Figure 25, Step 1*.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

d. Using a circular motion, pull seal up (*Figure 25*, *Step 1*), out (*Figure 25*, *Step 2*), and down (*Figure 25*, *Step 3*).

e. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 25*, *Step 4*.

f. While supporting door lock from behind (through door opening), remove two Phillips head screws holding door latch switch to front panel. Refer to *Figure 26*.

g. Gently pull door lock out through door opening. Remove door lock only far enough to disconnect harness connector from door lock. Refer to *Figure 26*.

NOTE: When installing new door lock, be sure to install small lip through mounting hole first and then rotate lock into position.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

74. WASHER MOTOR

NOTE: Motor is removed out through front of washer, however, as an option, motor can be removed out through lower rear access panel opening on rear panel.

Motor Removal –

a. While supporting lower front access panel, remove two screws from bottom edge of panel. Refer to *Figure 19*.
b. Gently lower front access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 19*.
c. Run belt off pulley while slowly turning pulley.
d. Remove belt from motor shaft.
e. Cut the wire tie holding small harness connector to motor, then disconnect both motor harness connectors from motor. Refer to *Figure 30*.
f. Using a magic marker, outline the washer on the front and rear adjusting bolt holding motor to bracket so the belt can be tightened to the same location. Refer to *Figure 30*.
g. While supporting the motor, grasp the metal rod with a locking pliers and remove four bolts and washers holding motor to motor bracket, refer to *Figure 30*, and remove motor out through front of washer.

NOTE: Remove the back bolts and washers first, then remove the front bolts and washers.

Motor Installation –

a. Place new motor into washer and allow motor to rest on washer base.
b. Reconnect harness connector to new motor. Refer to *Figure 30*.
c. Install new wire tie holding small harness connector to motor frame. This is necessary to prevent future service calls. Refer to *Figure 30*.
d. Lift motor into position within the motor bracket and install the front pivot bolt and washer. Refer to *Figure 30*. Then install the rear pivot bolt and washer. Leave bolt snug, do not tighten.
e. Pivot motor up into motor bracket and install the front adjusting bolt and washer. Refer to *Figure 30*. Then install rear adjusting bolt and washer. Leave bolts snug.

NOTE: Locate the magic marker spot made earlier on the motor bracket. Pivot motor so front adjusting bolts and washers are in these spots and tighten both front and rear adjusting bolts. Then tighten both pivot bolts.

f. Place belt on motor pulley, then carefully run belt on pulley while slowly turning pulley.
g. Open loading door, reach into inner basket and rotate inner basket several times by hand. Recheck belt alignment.
h. Check belt tension. Refer to *Paragraph 109*.
i. Reinstall lower front access panel. Refer to *Figure 19*.

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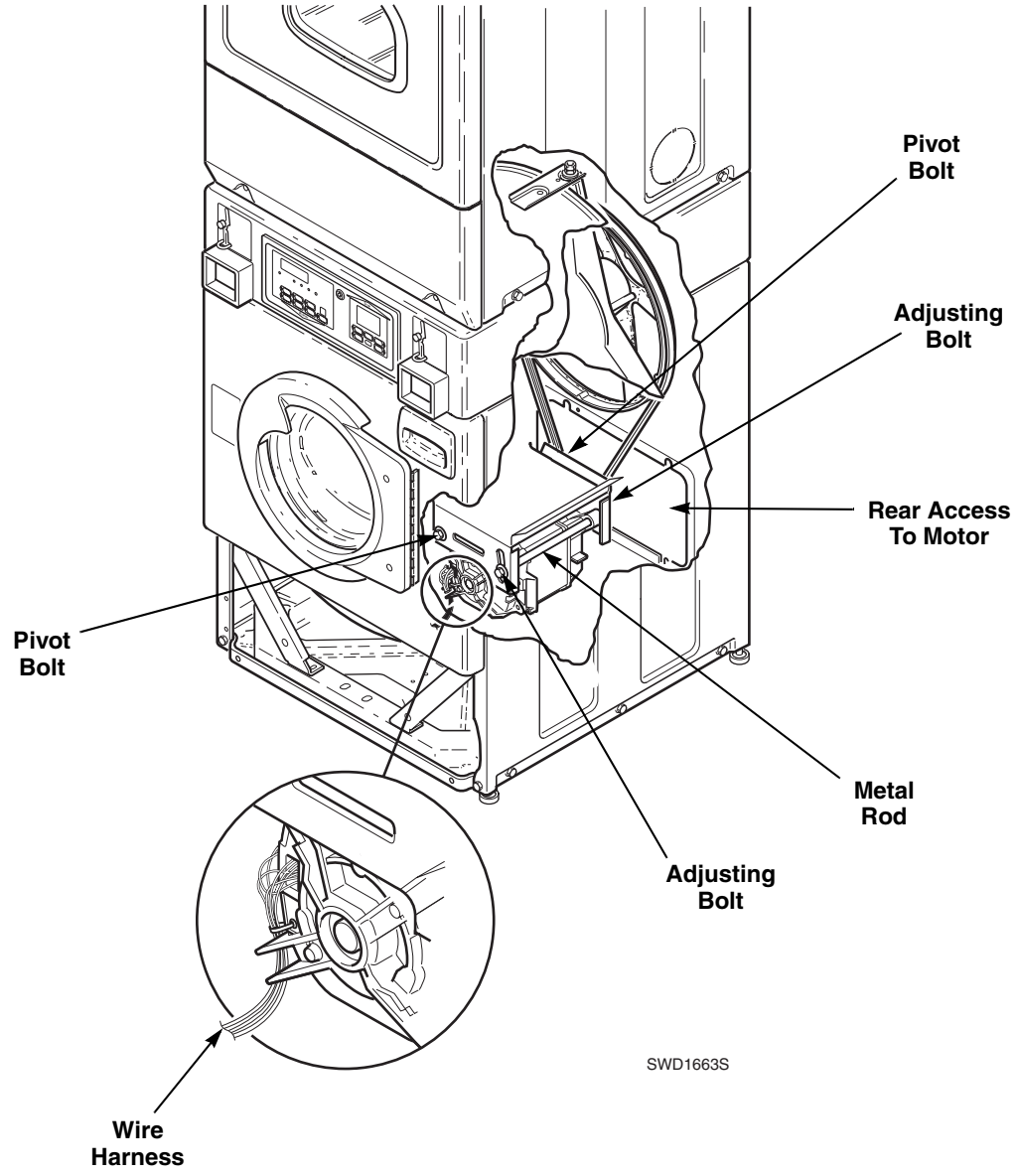

Figure 30

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WARNING

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

75. WASHER HEATING ELEMENT (Models equipped with heater)

a. While supporting lower access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 19*.
b. Disconnect all wires from heating element.
c. Unscrew nut and lockwasher from center terminal of heating element until nut is at end of threaded stud. Refer to *Figure 31*.
d. Using a brass or wood rod, tap the threaded stud in toward washer about 1/4 inch to loosen heating element.
e. Grasp heating element by the terminals. Pull element and rubber washer through opening in outer tub front panel. Refer to *Figure 31*.

NOTE: All rubber from old element gasket must be removed prior to installing a new element.

NOTE: When installing new heating element assembly, elements must be positioned in the same spot as old elements. Refer to *Figure 31*.

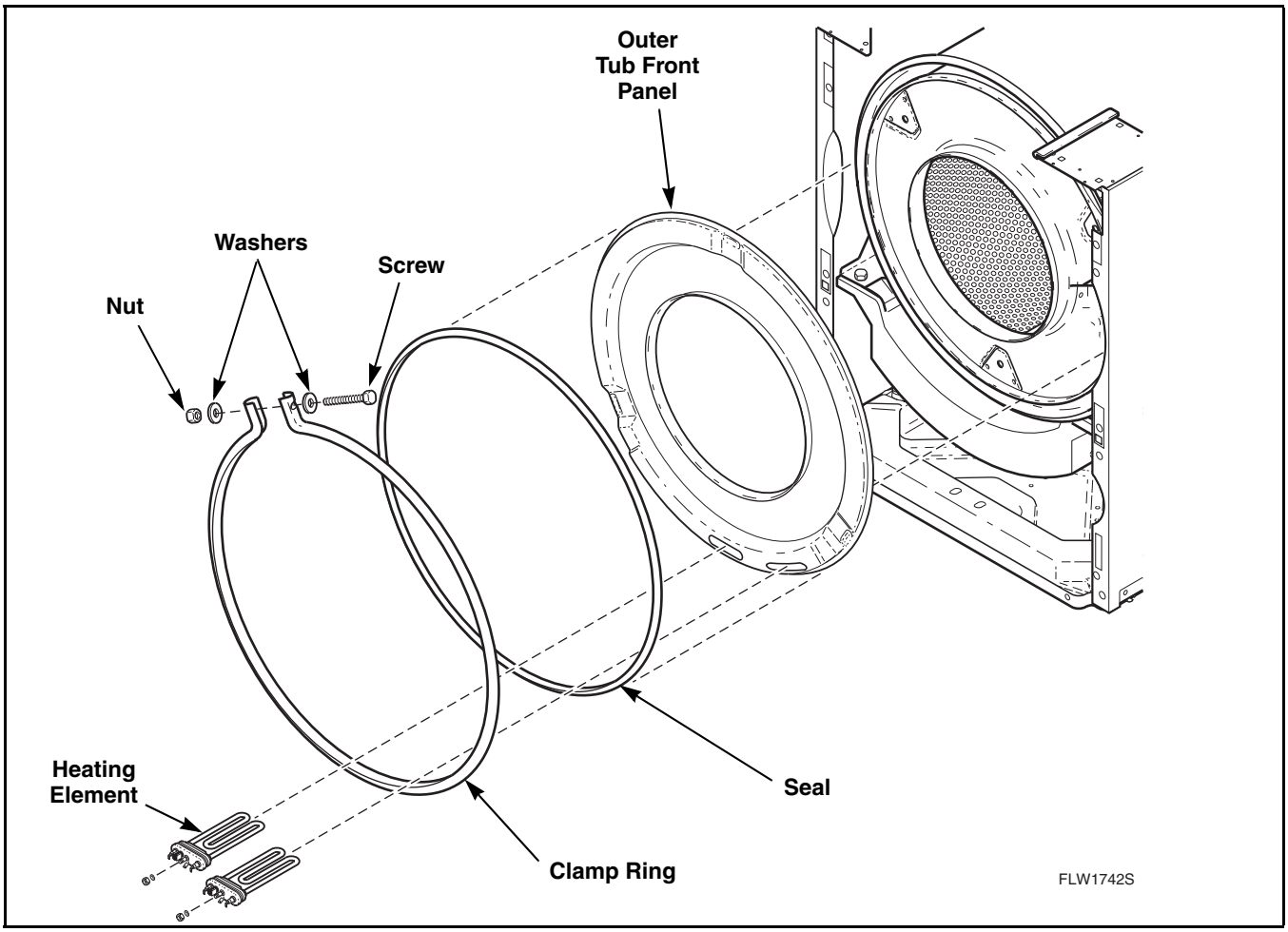

Figure 31

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

76. OUTER TUB FRONT PANEL

a. Unlock control panel. Refer to *Figure 9, Step 1.*
b. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off rail support of the control cabinet. Refer to *Figure 9, Step 2.*
c. Remove control panel away from control cabinet. Refer to *Figure 9, Step 3.*
d. Working through control panel opening, remove two screws holding bottom flange of control cabinet front to top flange of front panel. Refer to *Figure 17.*
e. While supporting lower front access panel, remove two screws from bottom edge of panel. Refer to *Figure 19.*
f. Gently lower access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 19.*
g. Remove dispenser drawer using the special tool, No. 318P4. Refer to *Figure 24.*
h. Open loading door and carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is located at 6 o'clock position. Refer to *Figure 27.*

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

i. Grasp loading door seal lip. Refer to *Figure 25, Step 1.*

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

j. Using a circular motion, pull seal up (*Figure 25*, *Step 1*), out (*Figure 25*, *Step 2*), and down (*Figure 25*, *Step 3*).
k. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 25*, *Step 4.*

NOTE: Door seal installation can be improved using water or soap solution to work seal around circumference of loading door opening. Be sure to orientate seal with the tab in the 12 o'clock position. When installing wire clamp ring to front panel, be careful not to overstretch tension spring.

l. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 26.*
m. Remove front panel (with loading door attached) away from washer as far as wires permit.
n. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 26.* Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: The large wire clip holds both the wire harnesses and the door seal hose.

o. Loosen hose clamp and remove dispenser valve-to-door seal hose connection at the dispenser. Refer to *Figure 29.*

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 29*.

p. Loosen large clamp holding door seal to front of outer tub. Carefully pull seal off front lip of outer tub front panel and remove door seal and hose. Refer to *Figure 29.*
q. Disconnect ground wire from outer tub front panel. Refer to *Figure 32.*
r. Remove nut, washers and screw holding clamp ring to outer tub front panel. Refer to *Figure 32.*
s. Remove rubber seal from outer tub front panel and discard seal.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

IMPORTANT: Always replace seal with a new seal. Spray or apply a mixture of diluted laundry detergent to assist in installation of new seal. The "puffy" side of seal should be installed to the inside. For best results, tap clamp ring all around while tightening screw and nut.

NOTE: Install metal clamp ring by placing clamp ring opening at approximately the 10 o'clock position to ensure that no interference is encountered with side panel or the under side of the control cabinet. Tighten the clamp ring screw and nut until a spacing of one inch is achieved at the clamp ring opening or until tight.

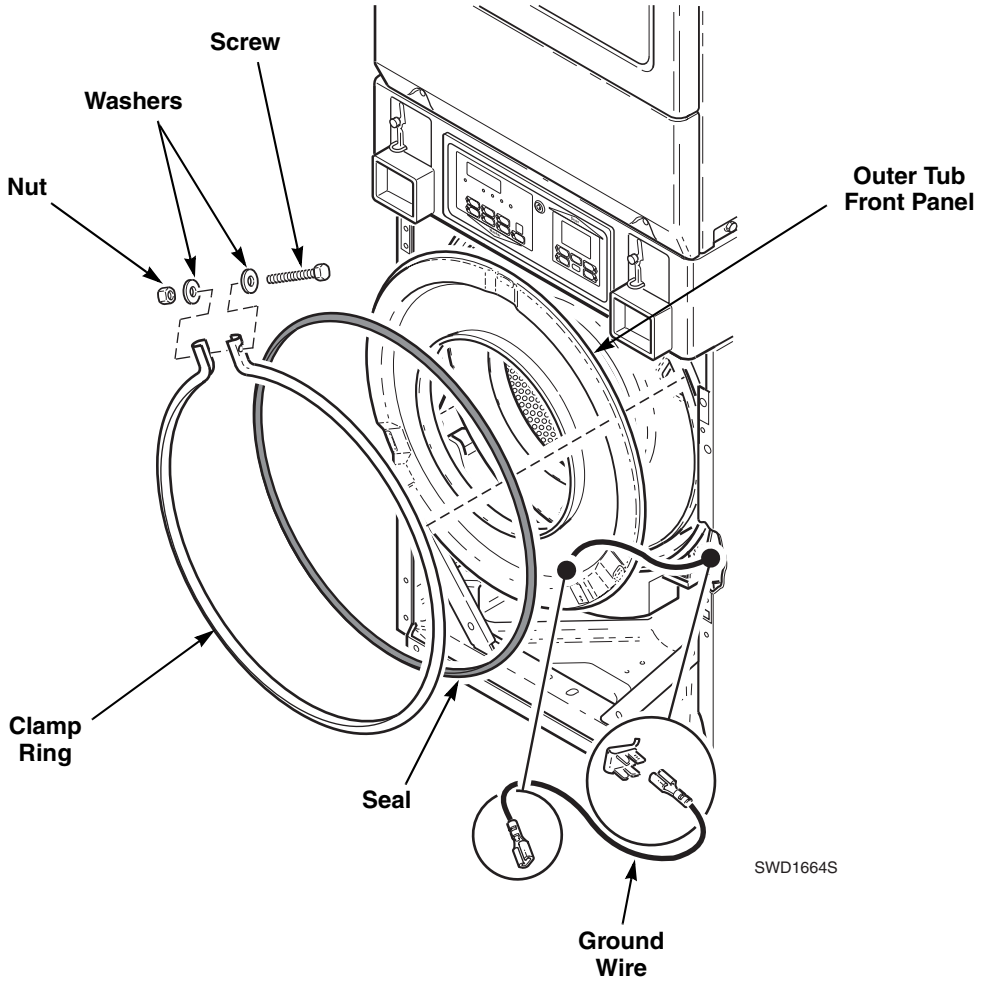

Figure 32

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

77. WASHER INNER BASKET PULLEY

a. While supporting lower front access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 19*.
b. Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 24*.
c. Unlock control panel. Refer to *Figure 9*, *Step 1*.
d. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off rail support of the control cabinet. Refer to *Figure 9*, *Step 2*.
e. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 9*, *Step 3*.
f. Working through the control panel opening, remove two screws holding bottom flange of control cabinet front to top flange of front panel. Refer to *Figure 17*.
g. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 26*. Remove front panel (with loading door attached) away from washer as far as wires permit.
h. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 29*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: The large wire clip holds both the wire harnesses and the door seal hose. Refer to *Figure 29*.

i. Go to rear of machine and remove two screws holding lower rear access panel to rear panel and remove access panel. Refer to *Figure 22*.
j. Run belt off pulley while slowly turning pulley. Refer to *Figure 22*.
k. Remove belt from motor shaft.
l. Remove hole plug from rear panel to access pulley cap screw. Refer to *Figure 36*.
m. Remove cap screw (left hand thread) lockwasher and flat washer holding pulley to inner basket shaft. Refer to *Figure 36*.
n. Remove pulley from shaft and set on base of machine.

IMPORTANT: When installing pulley, always use a new cap screw to prevent screw from loosening during operation. Use a 3/8 - 24 UNF left hand thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

o. Remove pulley from front of machine by sliding around outer tub.
p. After installing belt, adjust belt tension per *Paragraph 109*.

78. WASHER INNER BASKET ASSEMBLY

Inner Basket Removal –

a. While supporting lower front access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 19*.
b. Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 24*.
c. Unlock control panel. Refer to *Figure 9*, *Step 1*.
d. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off rail support of the control cabinet. Refer to *Figure 9*, *Step 2*.
e. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 9*, *Step 3*.
f. Open loading door. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is in 6 o'clock position. Refer to *Figure 27*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

g. Grasp loading door seal lip. Refer to *Figure 25*, *Step 1*.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

h. Using a circular motion, pull seal up (*Figure 25*, *Step 1*), out (*Figure 25*, *Step 2*), and down (*Figure 25*, *Step 3*).
i. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 25*, *Step 4*.
j. Working through the control panel opening, remove two screws holding bottom flange of control cabinet front to top flange of front panel. Refer to *Figure 17*.
k. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 26*. Remove front panel (with loading door attached) away from washer as far as wires permit.
l. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 29*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: The large wire clip holds both the wire harnesses and the door seal hose. Refer to *Figure 29*.

m. Loosen hose clamp and remove dispenser valve-to-door seal hose connection at the dispenser. Refer to *Figure 29*.

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 29*.

n. Loosen large clamp holding door seal to front of outer tub. Carefully pull seal off front lip of outer tub front panel and remove door seal and hose. Refer to *Figure 29*.

NOTE: Door seal installation can be improved using water or soap solution to work seal around circumference of loading door opening. Be sure to install seal with the tab in the 12 o'clock position.

o. Disconnect ground wire from outer tub front panel. Refer to *Figure 32*.
p. Remove nut, washers and screw holding clamp ring to outer tub front panel. Refer to *Figure 32*.
q. Remove rubber seal from outer tub front panel and discard seal.

IMPORTANT: Always replace seal with a new seal. Spray or apply a mixture of diluted laundry detergent to assist in installation of new seal. The "puffy" side of seal should be installed to the inside. For best results, tap clamp ring all around while tightening screw and nut.

NOTE: Install metal clamp ring by placing clamp ring opening at approximately the 10 o'clock position to ensure that no interference is encountered with side panel or the underside of the control cabinet or cabinet top. Tighten the clamp ring screw and nut until a spacing of one inch is achieved at the clamp ring opening or until tight.

r. Run belt off pulley while slowly turning pulley. Refer to *Figure 22*.
s. Remove belt from motor shaft.
t. Remove cap screw (left hand thread), lockwasher and flat washer holding pulley to inner basket shaft. Refer to *Figure 36*.

NOTE: Cap screw can be accessed through hole in rear panel by removing hole plug. Refer to *Figure 36*.

u. Remove pulley front shaft.

IMPORTANT: When installing pulley, always use a new cap screw to prevent screw from loosening during operation. Use a 3/8 - 24 UNF left hand thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

v. After installing belt, adjust belt tension per *Paragraph 109*.
w. Carefully remove inner basket out through front of washer.

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

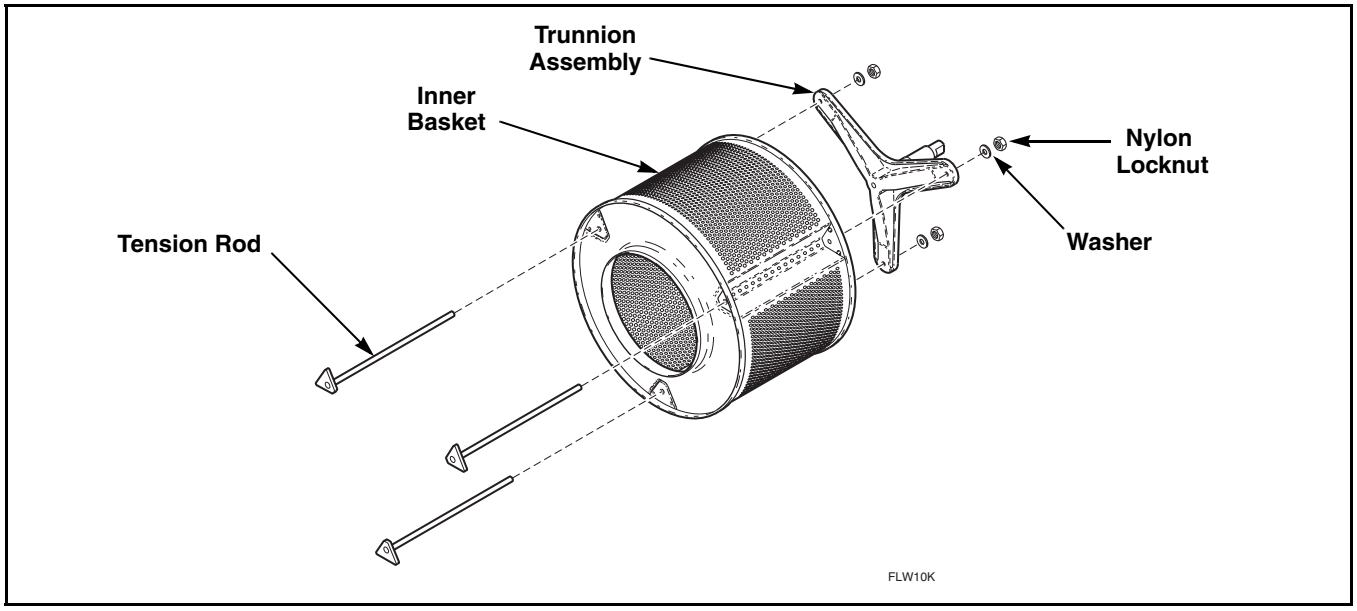

Figure 33

Installing 800749P Trunnion Kit or 800198P Inner Basket Kit –

a. Remove nuts, washers and tension rods holding trunnion to inner basket. Refer to *Figure 33*.
b. If using existing trunnion, clean out old Loctite from pulley bolt threads using a 3/8-24 UNF Left Hand Tap.
c. Dip threads of three new tension rods into lightweight oil.
d. Insert tension rods into inner basket. Refer to *Figure 33*. Position each rod so the rounded corner of triangular head faces the center of inner basket. Refer to *Figure 34*.
e. Position trunnion assembly through rods and onto inner basket.
f. Attach three washers and three new nylon locknuts onto rods. Leave the nuts loose.

IMPORTANT: Always use new nylon locknuts.

g. Carefully center trunnion on basket and torque nuts to about 50 inch-pounds.
h. Install inner basket/trunnion assembly into washer. Do not bolt down at this time.

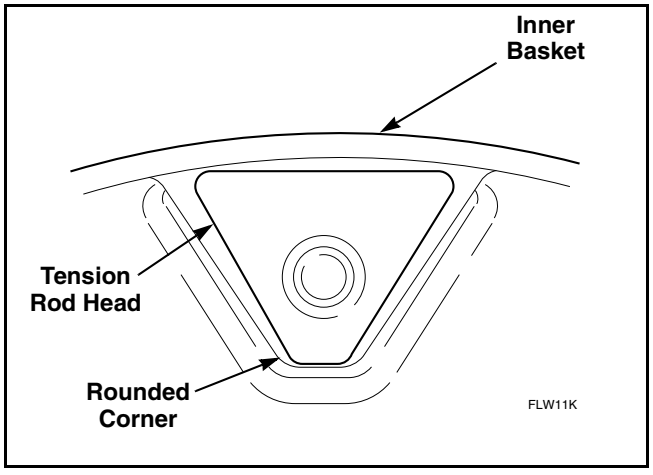

Figure 34

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WARNING

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

i. Check for concentricity/roundness of assembly. Use a dial indicator to check that concentricity at the inside edge of inner basket lip is a maximum of .05 inch TIR (Total Indicator Runout). Refer to *Figure 35*. If concentricity is not within .05 inch, remove assembly from washer and adjust location of trunnion. Repeat until concentricity is within .05 inch.

j. Remove inner basket/trunnion assembly from washer and evenly torque three nuts to 200 ± 10 inch-pounds.

k. Recheck that concentricity is still within .05 inch.

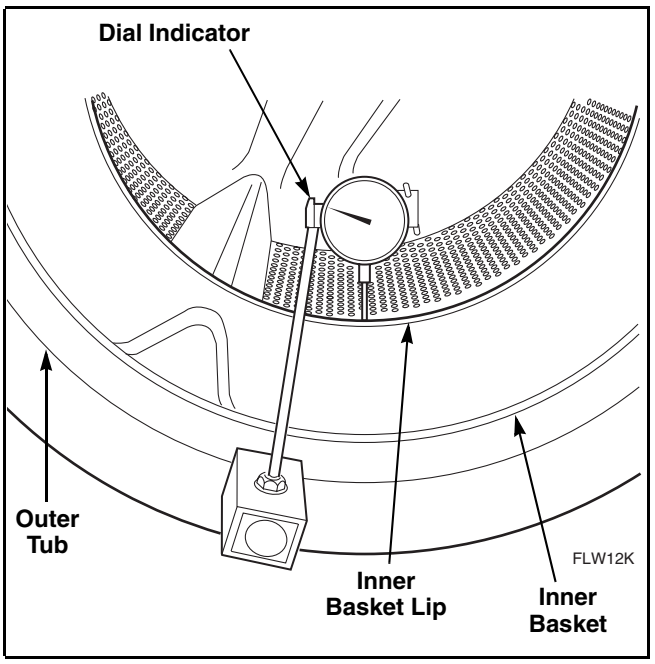

Figure 35

Inner Basket Installation –

a. Apply No. 27604P Anti-Seize Compound to the area of the trunnion shaft that will be contacting the front and rear bearings. Refer to *Figure 37*.

b. Apply a film of grease to area of shaft that will be contacting the bearing housing seal. Refer to *Figure 37*. Make sure seal lips also are packed with grease. Refer to *Figure 37*.

c. Install inner basket assembly by pushing all the way into outer tub.

d. Install pulley, flat washer, lockwasher and left hand thread screw. Refer to *Figure 36*.

IMPORTANT: When installing pulley, always use a new cap screw (included in kit) to prevent screw from loosening during operation. Use a thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

e. Unscrew left hand thread screw half way.

f. Install pulley bolt tightening fixture between the flat washer and the pulley. Refer to *Figure 38*.

g. Tighten left hand thread screw until washer is against pulley bolt tightening fixture.

h. Loosen screw about one half turn to free fixture.

i. Remove pulley bolt tightening fixture.

j. From front of washer, pull inner basket forward as far as possible. Flat washer should be against pulley.

k. Push inner basket back into outer tub as far as possible.

l. Tighten left hand thread screw. Be careful not to push the trunnion shaft forward while tightening the screw.

NOTE: Torque new left hand thread screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

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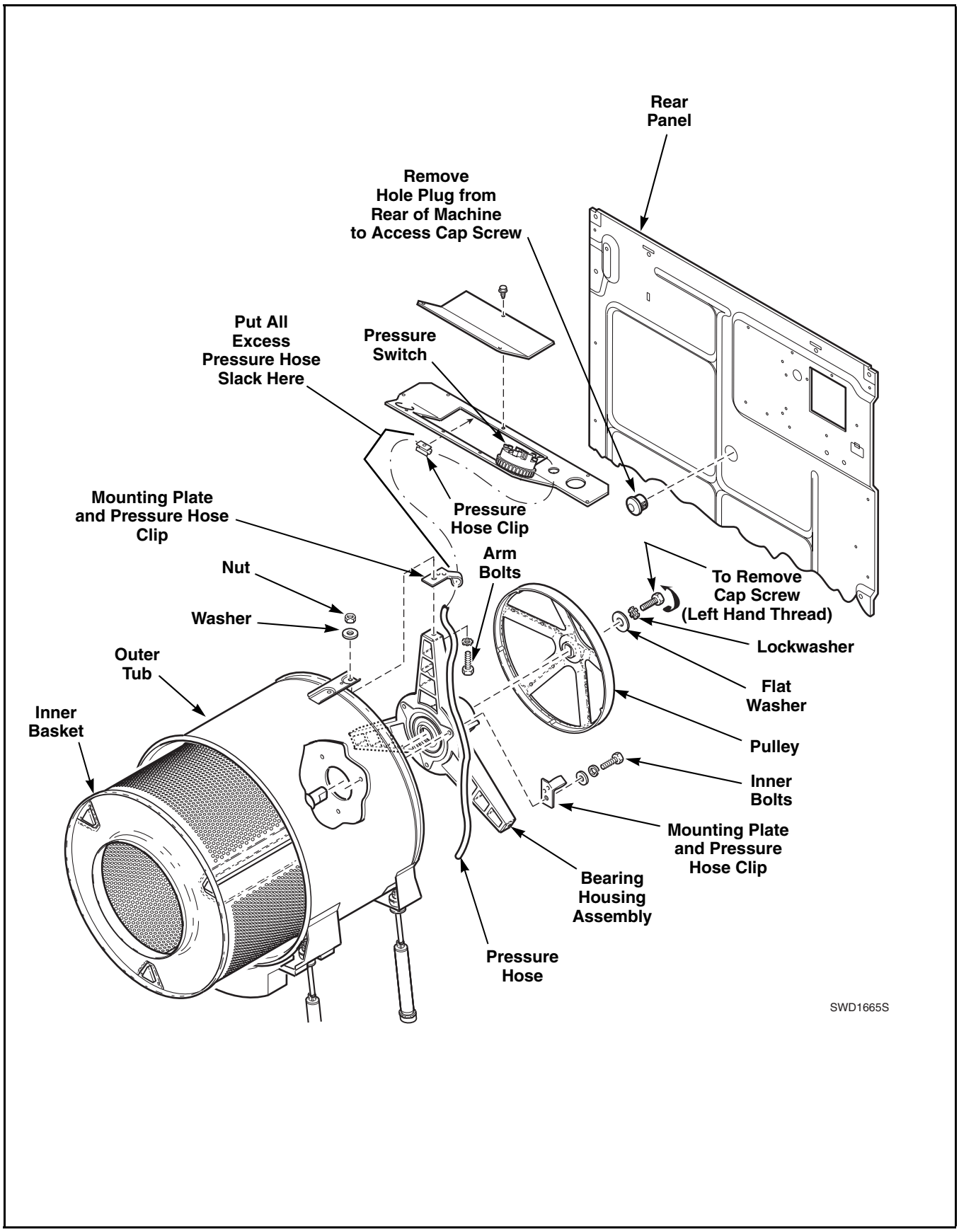

Figure 36

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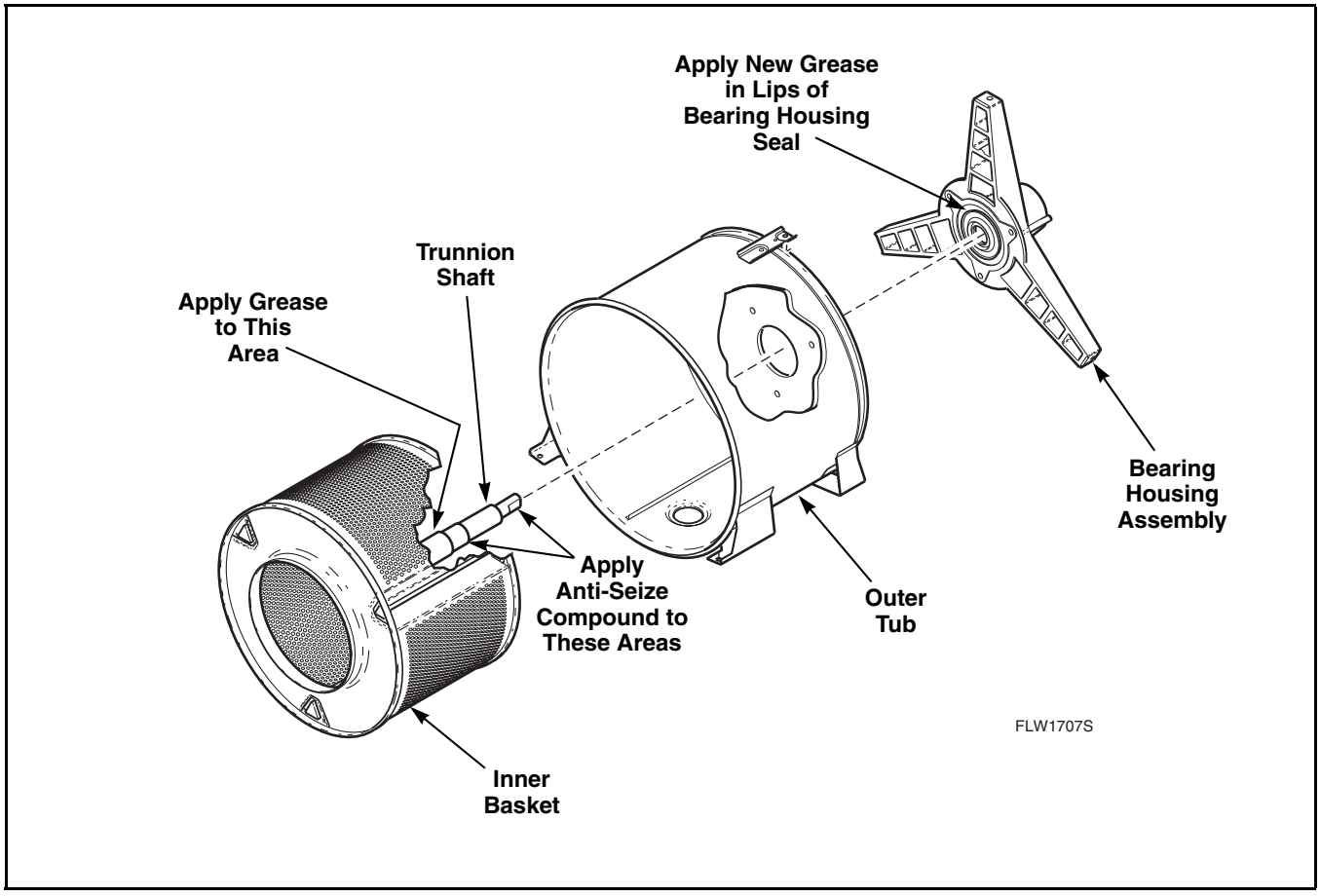

Figure 37

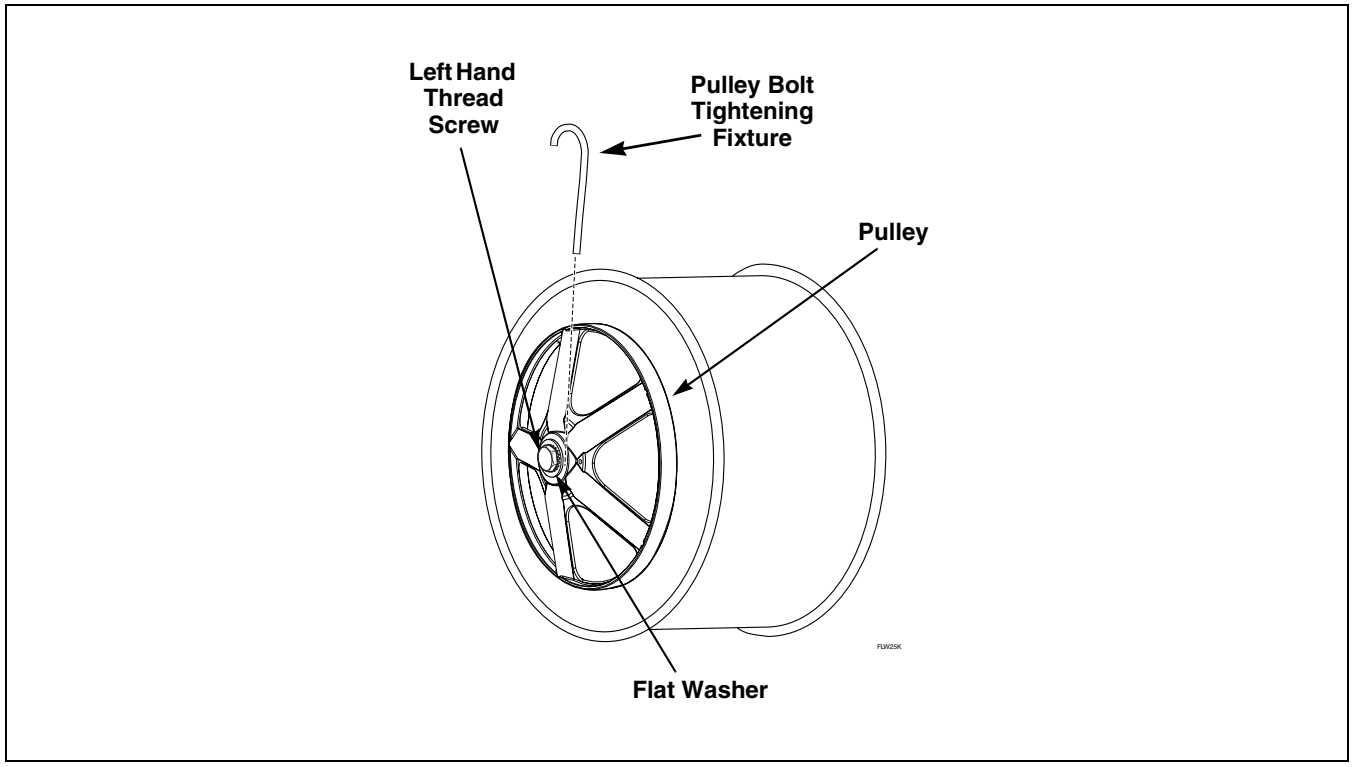

Figure 38

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

79. BEARING HOUSING

Bearing Housing Removal –

a. Remove dryer. Refer to *Paragraph 52*.
b. While supporting lower front access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 19*.
c. Use special tool, No. 318P4, and remove dispenser drawer. Refer to *Figure 24*.
d. Unlock control panel. Refer to *Figure 9*, *Step 1*.
e. Pull top of control panel away from control cabinet far enough to allow lifting control panel up and off rail support of the control cabinet. Refer to *Figure 9*, *Step 2*.
f. Remove control panel away from control cabinet as far as wires permit. Refer to *Figure 9*, *Step 3*.
g. Open loading door. Carefully remove wire clamp ring from groove with a small flat blade screwdriver. Spring is in 6 o'clock position. Refer to *Figure 27*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

h. Grasp loading door seal lip. Refer to *Figure 25*, *Step 1*.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

i. Using a circular motion, pull seal up (*Figure 25*, *Step 1*), out (*Figure 25*, *Step 2*), and down (*Figure 25*, *Step 3*).
j. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 25*, *Step 4*.
k. Working through the control panel opening, remove two screws holding bottom flange of control cabinet front to top flange of front panel. Refer to *Figure 17*.
l. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 26*. Remove front panel (with loading door attached) away from washer as far as wires permit.

NOTE: Refer to wiring diagram when rewiring door switch.

m. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 29*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel. Refer to *Figure 29*.

NOTE: The large wire clip holds both the wire harnesses and the door seal hose. Refer to *Figure 29*.

n. Loosen hose clamp and remove dispenser valve-to-door seal hose connection at the dispenser. Refer to *Figure 29*.

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 29*.

o. Loosen large clamp holding door seal to front of outer tub. Carefully pull seal off front lip of outer tub front panel and remove door seal and hose. Refer to *Figure 29*.

NOTE: Door seal installation can be improved using water or soap solution to work seal around circumference of loading door opening. Be sure to install seal with the tab in the 12 o'clock position.

p. Disconnect ground wire from outer tub front panel. Refer to *Figure 32*.
q. Remove nut, washers and screw holding clamp ring to outer tub front panel. Refer to *Figure 32*.
r. Remove rubber seal from outer tub front panel and discard seal.

IMPORTANT: Always replace seal with a new seal. Spray or apply a mixture of diluted laundry detergent to assist in installation of new seal. The "puffy" side of seal should be installed to the inside. For best results, tap clamp ring all around while tightening screw and nut.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

NOTE: Install clamp screw with threads and nut facing downward. Refer to *Figure 32*. Install clamp screw with threads and nut facing downward. Refer to *Figure 32*. Install metal clamp ring by placing clamp ring opening at approximately the 10 o'clock position to ensure no interference is encountered with side panel or the underside of the control cabinet or cabinet top. Tighten screw and nut until a spacing of one inch is achieved at the clamp ring opening. Tap clamp ring all around while tightening the screw and nut.

s. Run belt off pulley while slowly turning pulley. Refer to *Figure 22*.
t. Remove belt from motor shaft.
u. Remove cap screw (left hand thread), lockwasher and flat washer holding pulley to inner basket shaft. Refer to *Figure 36*.

NOTE: Cap screw can be accessed through hole in rear panel by removing hole plug. Refer to *Figure 36*.

v. Remove pulley from shaft.

IMPORTANT: When installing pulley, always use a new cap screw to prevent screw from loosening during operation. Use a 3/8 24 UNF left hand thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

w. After installing belt, adjust belt tension per *Paragraph 109*.
x. Carefully remove inner basket out through front of washer.
y. Remove three screws holding bearing housing arms to outer tub.

IMPORTANT: Prior to disassembly, note the position of the pressure hose, hose clips and mounting plate so parts can be reinstalled in the same position. Refer to *Figure 36*.

z. While supporting bearing housing, remove three inner screws holding bearing housing to rear of outer tub. Refer to *Figure 36*.

Bearing Housing Installation –

NOTE: When installing the bearing housing, be sure to route the pressure hose under the right arm and attach hose and pressure hose clip to mounting plate. Refer to *Figure 36*. Then route pressure hose up to the hose mounting plate on the top arm. Refer to *Figure 36*. Make sure there is no slack between these two points. All excess pressure hose slack must be collected between the top hose mounting plate on the bearing housing arm and the pressure hose clip. Refer to *Figure 36*.

IMPORTANT: The three arm bolts should always be tightened first and torqued to 275 inch pounds (31.46 Nm). Then tighten the three inner bolts and torque to 150 inch pounds (17.16 Nm).

NOTE: If a bearing failure should occur, a new bearing housing assembly should always be used. The bearings and seal are not serviceable parts. Make sure the new bearing housing seal is packed with lubrication in all grooves before installation. If not, lubricate seal.

a. Apply No. 27604P Anti-Seize Compound to the area of the trunnion shaft that will be contacting the front and rear bearings. Refer to *Figure 37*.
b. Apply a film of grease to area of shaft that will be contacting the bearing housing seal. Refer to *Figure 37*. Make sure seal lips also are packed with grease. Refer to *Figure 37*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

IMPORTANT: When installing inner basket, the following steps must be taken to ensure that the seal is properly orientated:

c. Install inner basket assembly by pushing all the way into outer tub.
d. Install pulley, flat washer, lockwasher and left hand thread screw. Refer to *Figure 36*.

IMPORTANT: When installing pulley, always use a new cap screw (included in kit) to prevent screw from loosening during operation. Use a thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

e. Unscrew left hand thread screw half way.
f. Install pulley bolt tightening fixture between the flat washer and the pulley. Refer to *Figure 38*.
g. Tighten left hand thread screw until washer is against pulley bolt tightening fixture.
h. Loosen screw about one half turn to free fixture.
i. Remove pulley bolt tightening fixture.
j. From front of washer, pull inner basket forward as far as possible. Flat washer should be against pulley.
k. Push inner basket back into outer tub as far as possible.
l. Tighten left hand thread screw. Be careful not to push the trunnion shaft forward while tightening the screw.

NOTE: Torque new left hand thread screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

80. DRYER ACCESS PANEL
Refer to *Figure 39*.

a. While supporting access panel, remove two screws from bottom edge of panel.
b. Gently lower access panel to disengage panel locators from bottom edge of front panel.
c. Remove access panel.

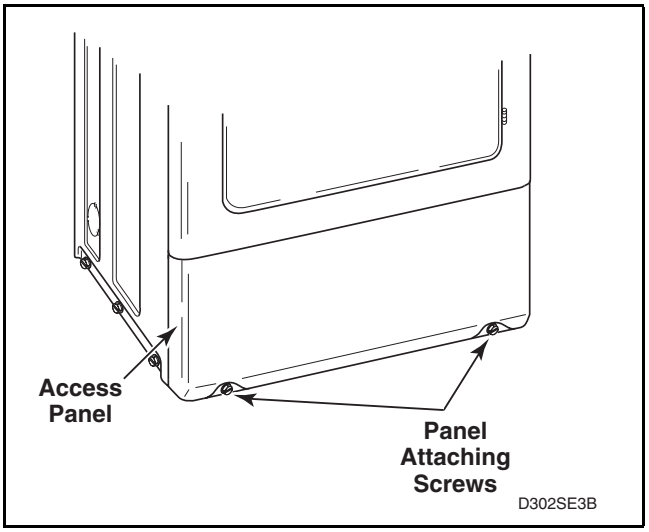

Figure 39

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

81. CABINET TOP

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.
b. Gently lower access panel to disengage panel locators from bottom edge of access panel. Refer to *Figure 39*.
c. Remove two screws holding bottom tabs on front panel to dryer cabinet. Refer to *Figure 40*.
d. Swing bottom of front panel away from dryer to disengage hold-down clips and locators from cabinet top.
e. Disconnect wires from door switch. Refer to *Figure 46*.

NOTE: Refer to wiring diagram when rewiring switch.

f. Remove two screws holding cabinet top to front flange of cabinet. Refer to *Figure 41*.
g. Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets. Refer to *Figure 42*.

NOTE: While servicing, cabinet top may be raised and hinged on the rear hold-down brackets or supported against wall behind dryer.

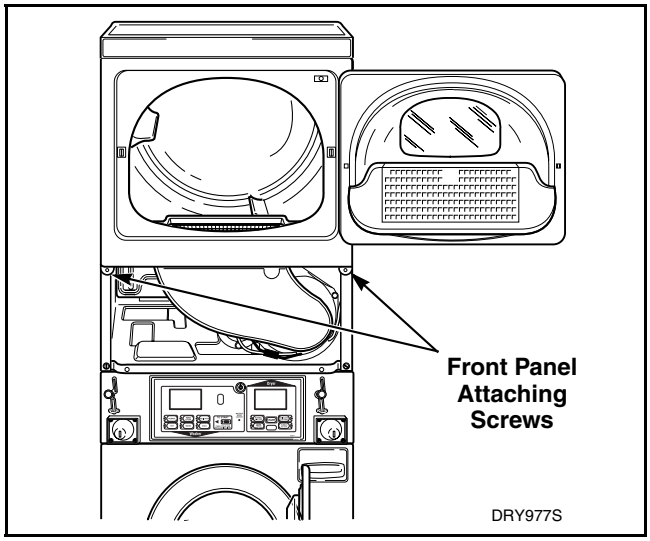

Figure 40

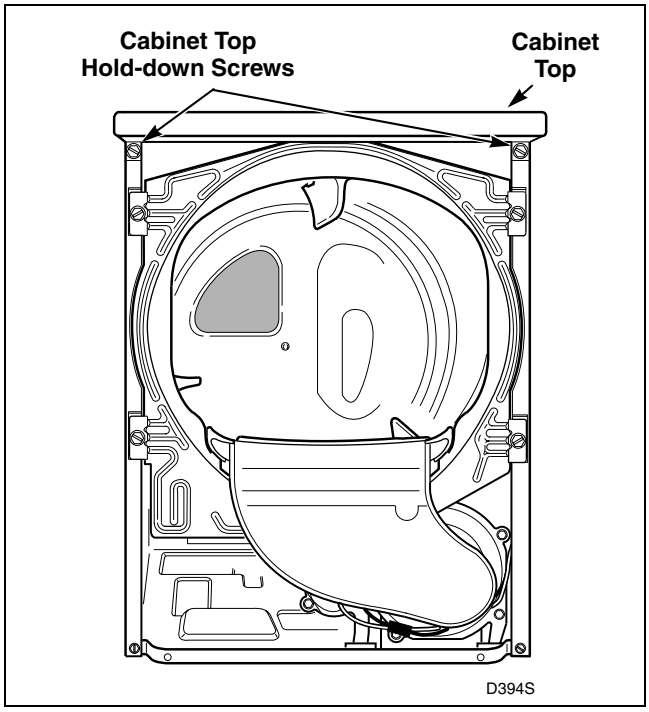

Figure 41

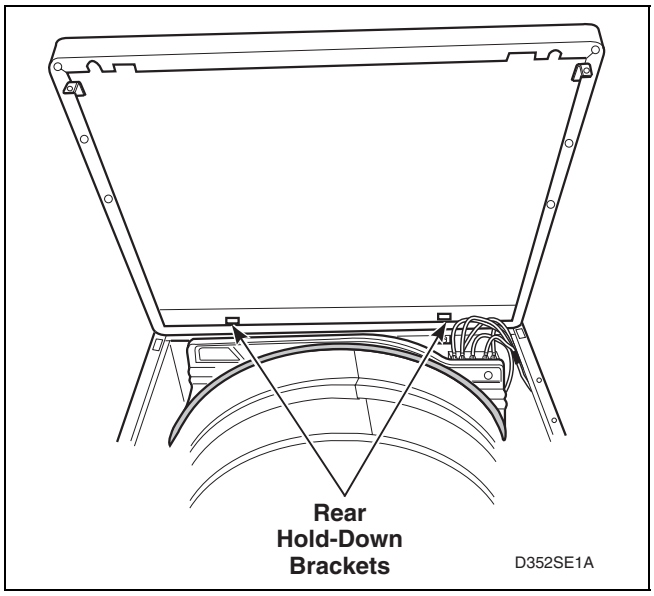

Figure 42

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

82. LINT FILTER

a. Open loading door and remove screw from end of lint filter. Refer to *Figure 43*.
b. Lift lint filter out of air duct, paying close attention to orientation.

IMPORTANT: When installing lint filter, be sure to install the filter with the words facing the front of the dryer. If filter is installed backwards, lint will accumulate in exhaust system, which can adversely affect dryer performance.

83. DRYER LOADING DOOR

a. Open loading door.
b. Remove screws holding loading door to hinges. Refer to *Figure 43*.

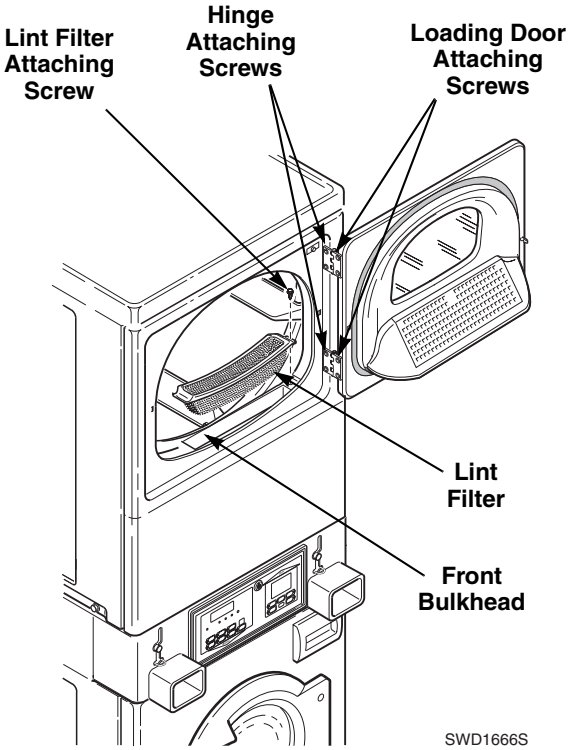

Figure 43

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

84. DRYER INNER AND OUTER DOOR PANELS AND DOOR PULL

a. Remove four screws holding door assembly to hinges. Refer to *Figure 43*.

b. Remove remaining screws around the door assembly and separate panels. Refer to *Figure 44*.

c. Remove wedge (located behind door pull) by carefully prying up on center of wedge. Refer to *Figure 44*.

d. Remove door pull. Refer to *Figure 44*.

85. DRYER DOOR STRIKE

a. Open loading door.

b. Remove screw holding door strike and bracket to loading door and remove strike and bracket. Refer to *Figure 44*.

NOTE: You may have to loosen the two screws on end of door to allow for strike and bracket removal.

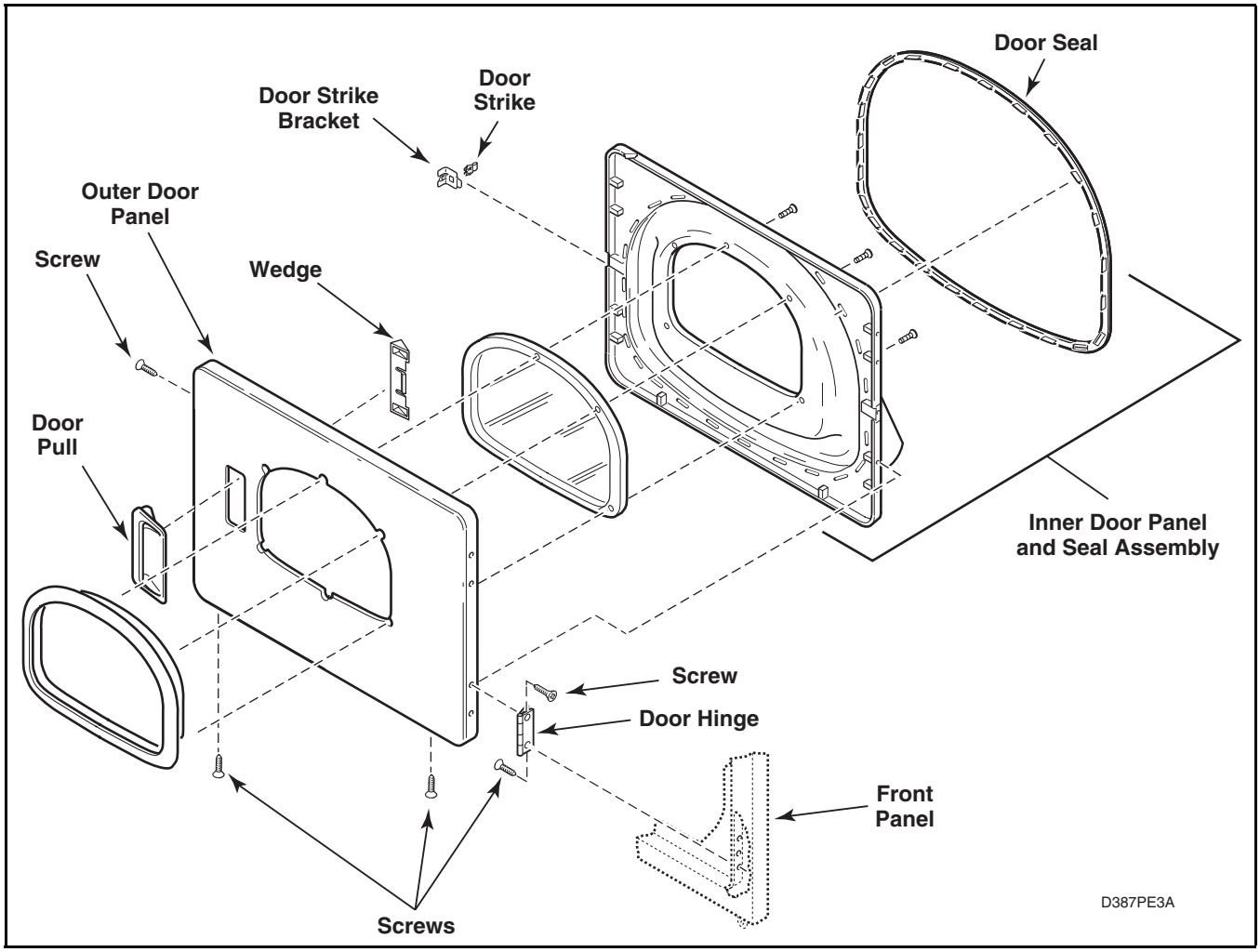

Figure 44

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WARNING

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

86. DRYER DOOR SEAL

a. Remove inner door panel from outer door panel. Refer to *Paragraph 84*.

b. Grasp either end of door seal at bottom of door and remove seal from tabs on inner door panel by gently pulling on the seal. Refer to *Figure 45*.

NOTE: When replacing seal, be sure seal is not stretched or distorted. The tab in the seal should be installed in each slot of the inner door panel, shown in *Figure 45*. The split in the seal must be at the bottom of the door. Make sure that each tab of the seal is fully engaged into the slot.

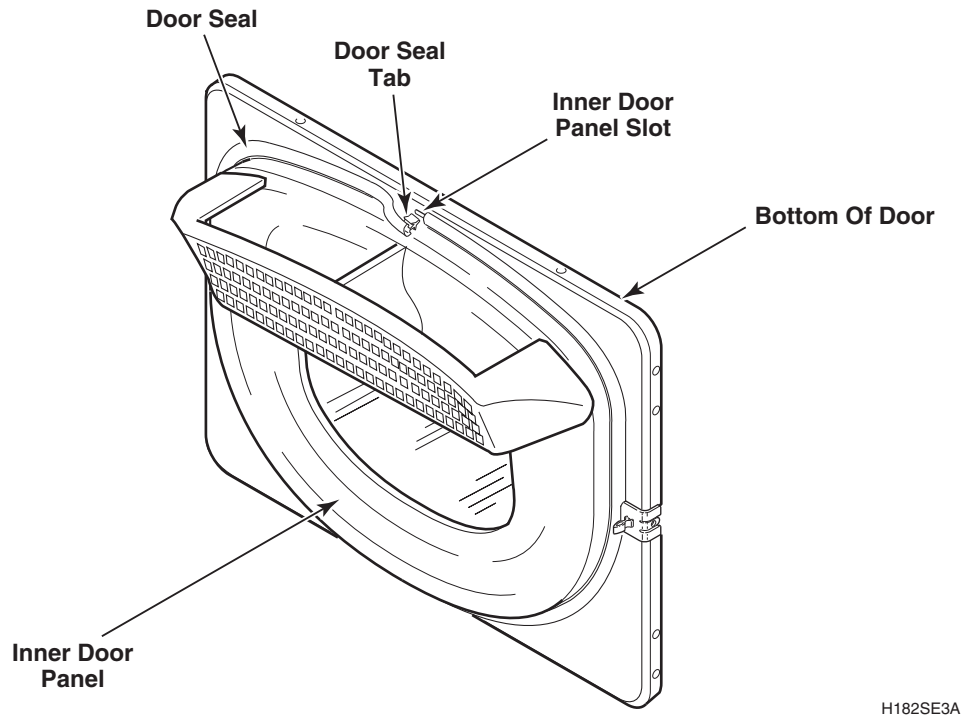

Figure 45

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WARNING

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

87. DRYER FRONT PANEL AND PANEL SEAL

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.
c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 40*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
d. Disconnect wires from door switch. Refer to *Figure 46*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Remove front panel seal from flange around inside of door opening. Refer to *Figure 47*.

NOTE: Be sure seal is properly positioned when installing on front panel.

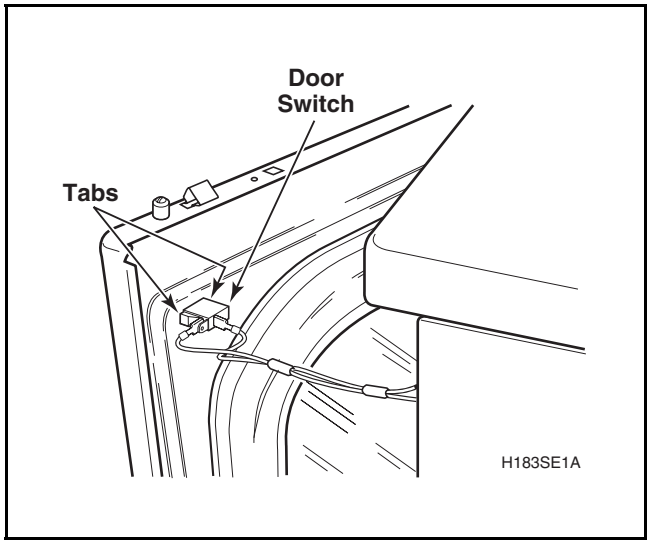

Figure 46

88. DRYER DOOR SWITCH

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.
c. Remove two screws holding tabs on front panel to dryer side panels. Refer to *Figure 40*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
d. Disconnect wires from door switch. Refer to *Figure 46*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Depress tabs on switch and push out of front panel. Refer to *Figure 46*.

89. DRYER DOOR CATCH

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.
c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 40*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
d. Disconnect wires from door switch. Refer to *Figure 46*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Depress tabs on top and bottom of catch and push out of front panel.

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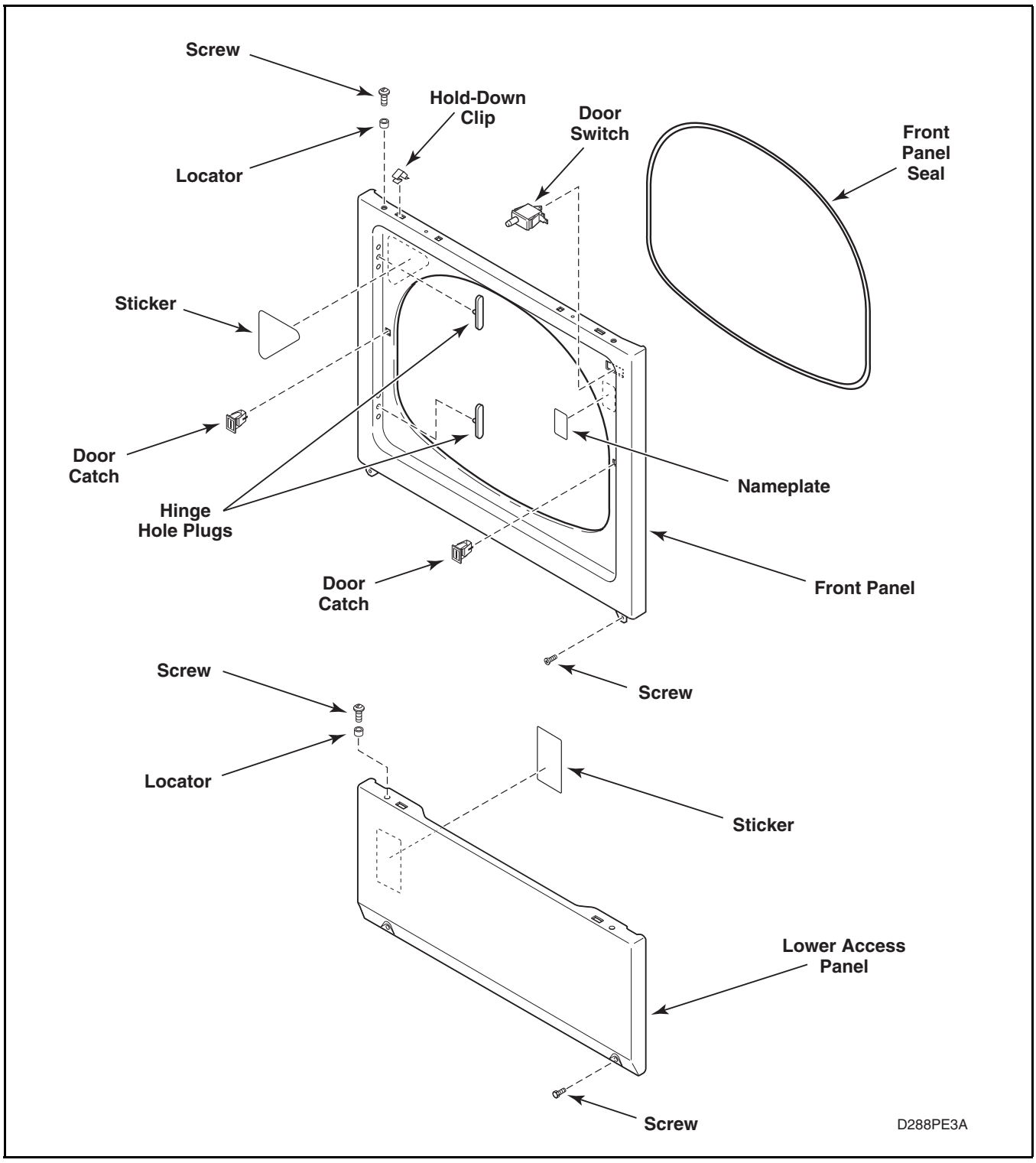

Figure 47

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WARNING

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

90. DRYER DOOR HINGE

a. Open loading door and, while supporting door, remove four screws holding door assembly to hinges. Refer to *Figure 48*.

b. Remove four screws holding hinges to front panel. Refer to *Figure 48*.

91. DRYER HOLD-DOWN CLIPS AND LOCATORS

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.

b. Gently lower access panel to disengage panel locators from bottom edge of front panel.

c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 40*. Swing bottom edge of front panel away from dryer far enough to disengage hold-down clips and panel locators from cabinet top.

d. Disconnect wires from door switch. Refer to *Figure 46*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Compress hold-down clips and remove from top of front panel. Refer to *Figure 47*.

f. Remove four screws holding four locators to access panel or front panel. Refer to *Figure 47*.

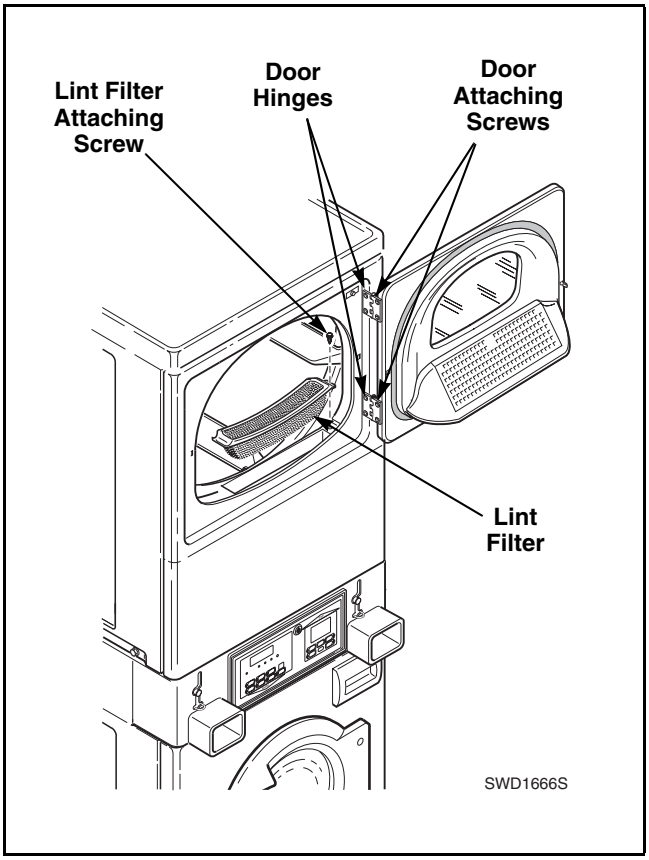

Figure 48

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WARNING

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

92. BURNER SYSTEM COMPONENTS (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.

c. **Complete Gas Valve Assembly.**

(1) Close main gas shut-off valve, disconnect igniter wires at disconnect blocks, sensor wires from sensor terminals, and wires from gas valve coils at the quick disconnect blocks. Refer to *Figure 49*.

(2) Disconnect gas shut-off valve from gas valve at the union nut. Refer to *Figure 49*.

(3) Remove three screws holding valve and mounting bracket to base. Refer to *Figure 49*.

(4) Lift gas valve and mounting bracket from base. Refer to *Figure 49*.

NOTE: The holding and booster coil, and secondary coil can be replaced individually.

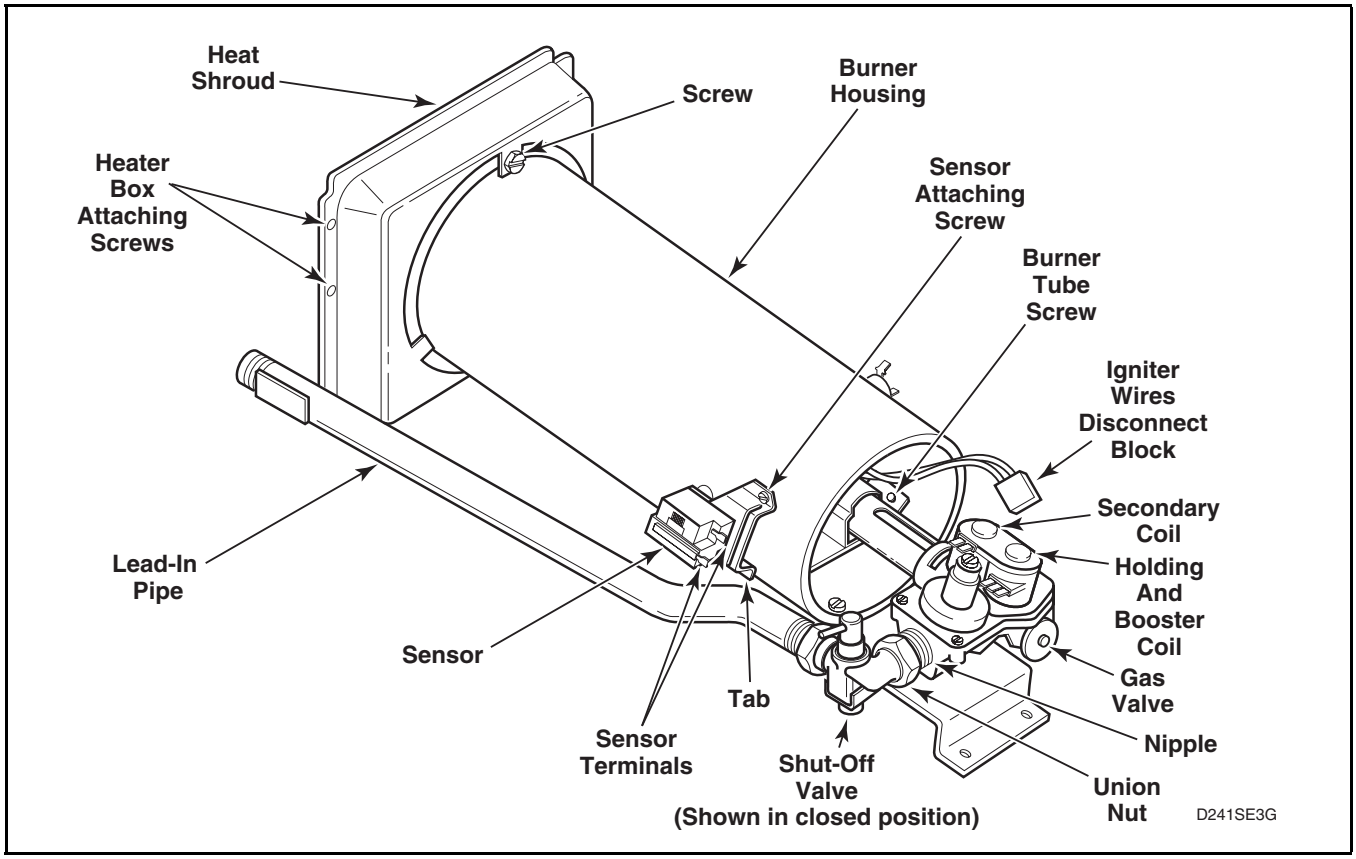

Figure 49

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

d. **Burner Tube, Igniter and Bracket**

NOTE: Burner tube and igniter can be removed without removing gas valve and bracket.

(1) Remove one screw from right side of burner housing holding burner tube in place. Refer to *Figure 51*.
(2) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. Refer to *Figure 49*.
(3) Carefully rotate burner tube and igniter **counterclockwise** so tab is at 8 o'clock position.
(4) Move air shutter end of burner tube slightly to right and CAREFULLY remove burner tube and igniter assembly out through front of dryer.
(5) Remove screw holding igniter and bracket to burner tube and remove igniter and bracket. Refer to *Figure 50*.

IMPORTANT: Use care while removing igniter to avoid damage. The igniter is very fragile.

IMPORTANT: Handle igniter by grasping the white ceramic portion of bracket only. DO NOT handle silicon carbide portion of igniter with hands or allow it to be contaminated by oil, grease or other foreign material. Oil, grease and other impurities or hairline cracks will cause igniter to burn out.

e. **Sensor**
(1) Remove wires from sensor terminals. Refer to *Figure 49*.
(2) Remove screw holding sensor to burner housing. Refer to *Figure 49*.

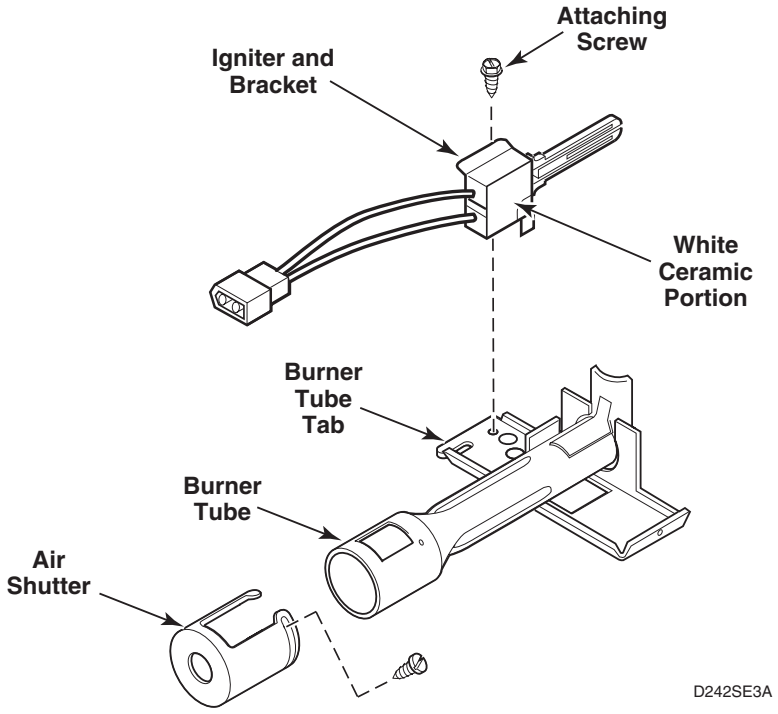

Figure 50

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

93. BURNER HOUSING AND HEAT SHROUD (Gas Models)

a. While supporting access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.

b. Gently lower access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.

c. Disconnect igniter wires at disconnect blocks, sensor wires from sensor terminals, and wires from gas valve coils at the quick disconnect blocks. Refer to *Figure 49*.

d. Remove screw from right side of burner housing, while holding burner tube in place. Refer to *Figure 51*.

e. Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. Refer to *Figure 49*.

f. Carefully rotate burner tube and igniter **counterclockwise** so tab is at 8 o'clock position.

g. Move air shutter end of burner tube slightly to the right and CAREFULLY remove burner tube and igniter assembly out through front of dryer.

IMPORTANT: The igniter is very fragile. Be careful not to damage it during removal.

h. Remove screw holding burner housing to heat shroud. Refer to *Figure 49*.

i. Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer. Refer to *Figure 51*.

j. Remove two screws holding heat shroud to heater box and remove heat shroud out through front of dryer.

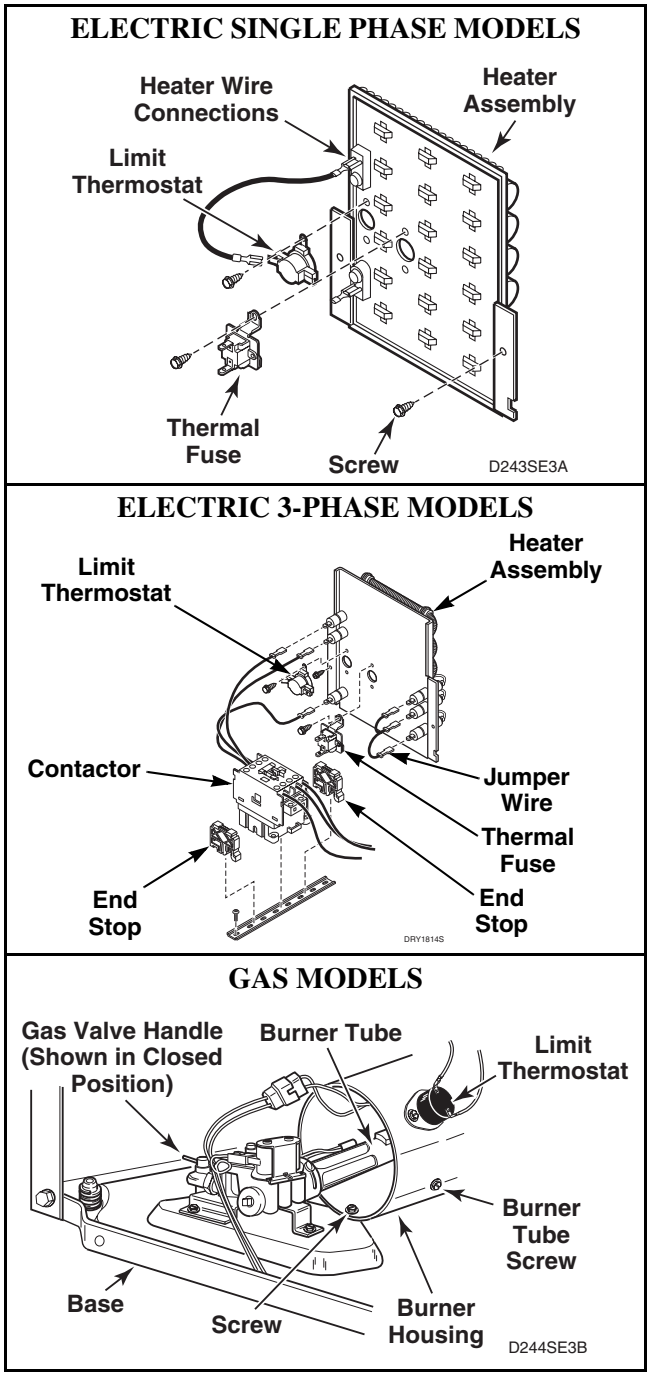

Figure 51

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

94. LIMIT THERMOSTAT

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.
c. Disconnect wires and remove screws holding limit thermostat to burner housing (gas models) or element plate (electric models). Refer to *Figure 51*.

95. HEATER ASSEMBLY (Electric Models)

a. While supporting access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.
b. Gently lower access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.
c. Remove two screws holding heater assembly to heater box and remove heater assembly out through front of dryer. Refer to *Figure 51*.
d. Disconnect wires from heater assembly. Refer to *Figure 51*.

NOTE: When reassembling, be sure all wire connectors are tight on element terminals, thermal fuse and limit thermostat.

96. THERMISTOR

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.
c. Disconnect wires and remove thermistor attaching screws. Refer to *Figure 51*.

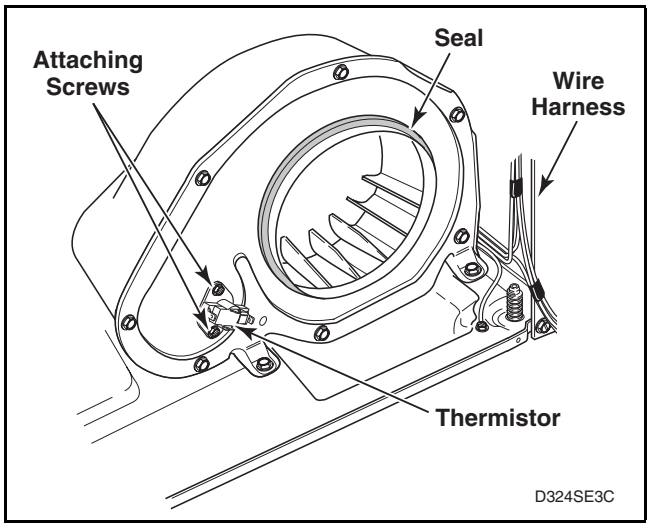

Figure 52

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

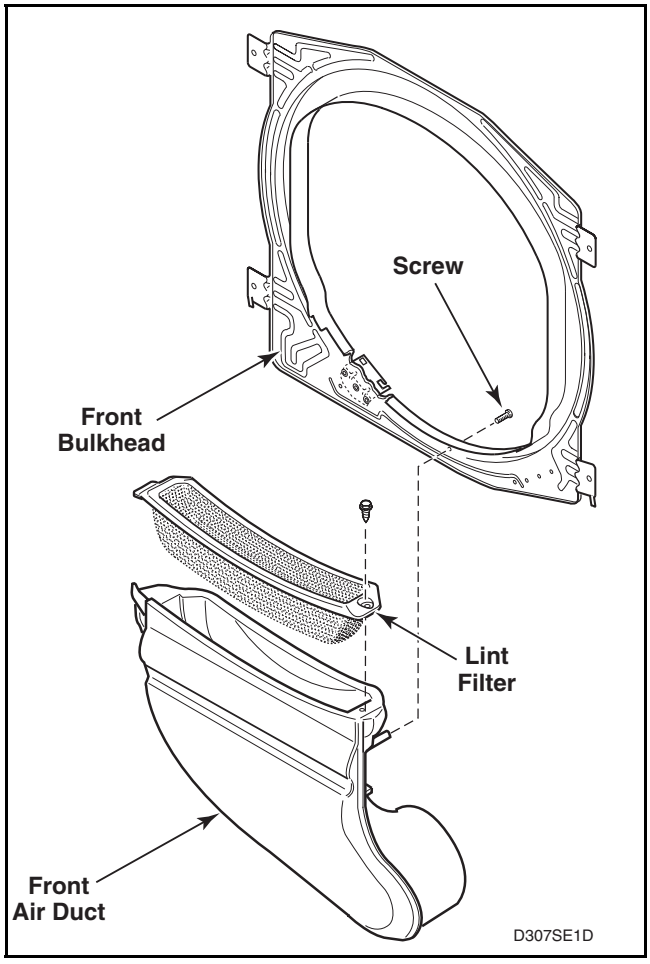

Figure 53

97. AIR DUCT

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.

c. Open loading door and remove screw from end of lint filter. Refer to *Figure 43*.

d. Lift lint filter out of air duct, paying close attention to orientation.

IMPORTANT: When installing lint filter, be sure to install the filter with the words facing the front of the dryer. If filter is installed backwards, lint will accumulate in exhaust system, which can adversely affect dryer performance.

e. Remove three screws holding the air duct to the front bulkhead inside cylinder. Refer to *Figure 53*.

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

f. Carefully lift air duct out of dryer.

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 52*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

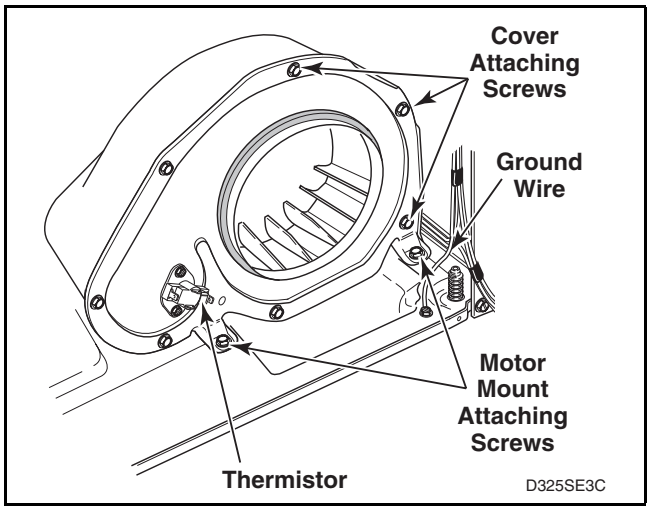

Figure 54

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

98. DRYER MOTOR AND EXHAUST ASSEMBLY

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.
c. Open loading door, remove screw, and lift filter out of bulkhead.
d. Remove screws holding air duct to front bulkhead (inside cylinder). Refer to *Figure 53*.

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 54*. If the seal is installed improperly, the airflow through the exhaust system will be restricted, which can adversely affect dryer performance.

e. Disconnect wires from thermistor.

NOTE: Refer to wiring diagram when rewiring thermistor.

f. Remove screw holding ground wire to dryer base. Refer to *Figure 54*.
g. Remove cylinder belt from idler and motor pulleys. Refer to *Figure 55*.
h. Disengage motor wire harness terminal block from motor switch by pressing in on the movable locking tabs (located on each end of the terminal block) and pulling away from motor. Refer to *Figures 58* and *59*.
i. Remove two screws holding motor mounting bracket to dryer base. Refer to *Figure 54*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

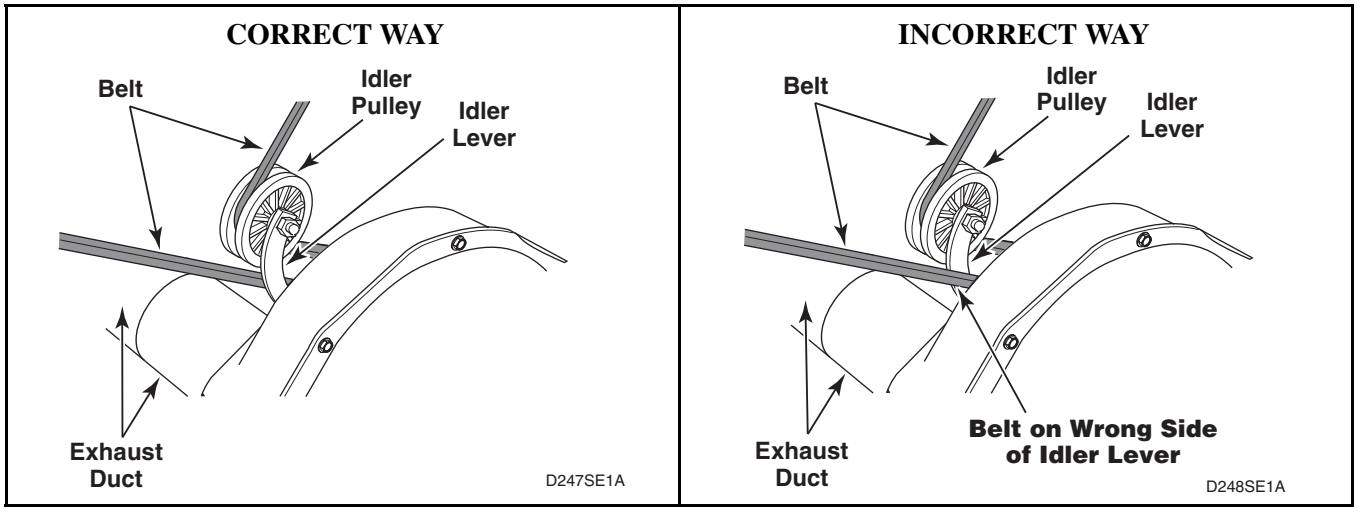

Figure 55

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 52*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

IMPORTANT: When reinstalling motor and exhaust assembly, be sure wire harness on right side is clipped to motor mounting bracket and is routed along dryer base (between motor mounting bracket and right side of cabinet). Refer to *Figure 53*. Tab on rear of motor mounting bracket must be slid into slot in dryer base. Be sure the belt has been installed on the correct side of the idler lever. Refer to *Figure 55*.

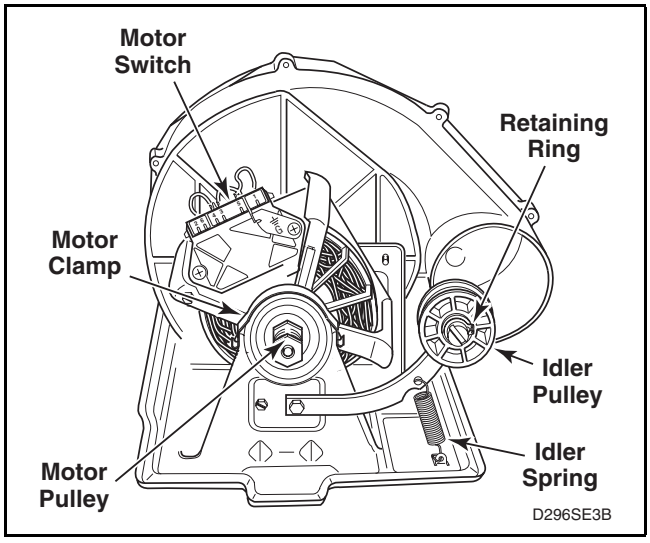

Figure 56

j. Pull assembly forward and disengage the middle exhaust duct.
k. Rotate the assembly 90° **counterclockwise** and slide out through front of dryer.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

l. **Motor pulley and idler pulley assemblies.** Refer to *Figure 56* for motor and idler pulley removal.

NOTE: When repairing or replacing the idler arm, it is important to make sure the idler arm moves freely. To ensure that the idler arm can move freely, proceed as follows:

(1) Unhook idler spring.
(2) Lift idler arm approximately 3 inches and release. If idler arm does not fall back to the base of the motor mount, then idler arm bolt is too tight.
(3) Loosen idler arm bolt 1/4 turn.
(4) Add grease between idler arm and motor mount.

m. **Impeller and housing.**
(1) Remove screws holding cover to housing. Refer to *Figure 54*.
(2) Hold motor pulley securely and unthread impeller from motor shaft (right hand thread). Use a 7/8 inch, 6 point socket to aid in the removal of the impeller.
(3) Remove three screws holding the exhaust housing to the motor mounting bracket. Refer to *Figure 57*.

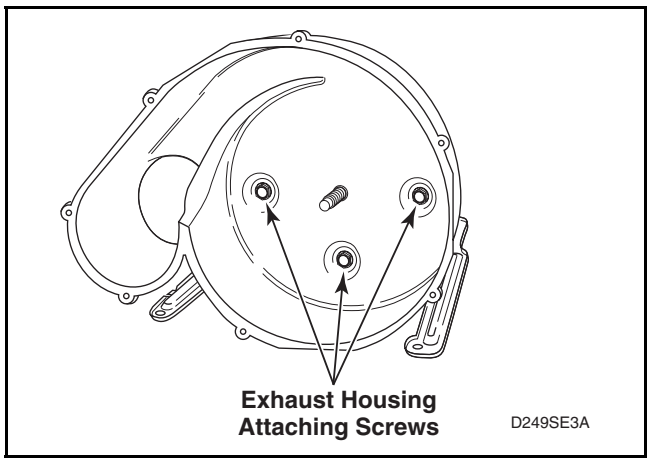

Figure 57

n. **Motor.**
(1) Disengage motor wire harness terminal block from the motor by pressing in on the movable locking tabs (located on each side of the terminal block) and pulling away from motor. Refer to *Figure 58*.

IMPORTANT: To avoid an open circuit, DO NOT pull on the terminal block wires when removing blocks from motor as this could damage the wires or terminal crimping.

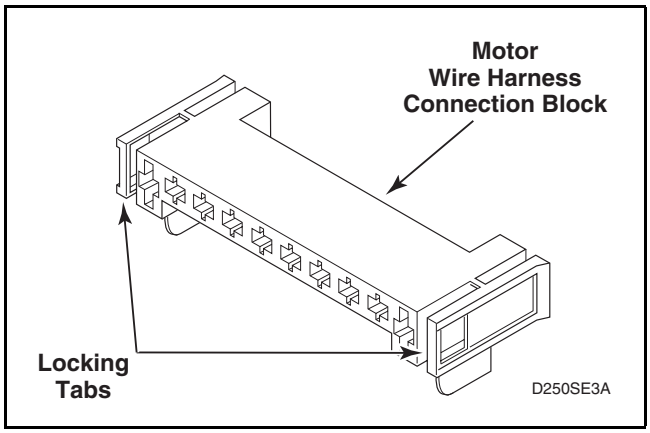

Figure 58

Before attaching wire harness terminal block to motor, be sure all the male terminals on motor are straight and are capable of accepting the terminals from the wire harness terminal block.

(2) Pry two motor clamps off motor mounting bracket with screwdriver, then lift motor out of mounting bracket. Refer to *Figure 56*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

NOTE: When replacing motor, motor switch should be at 10 o'clock position. The positioning tab on the motor should be engaged with the anti-rotating notch in the motor bracket.

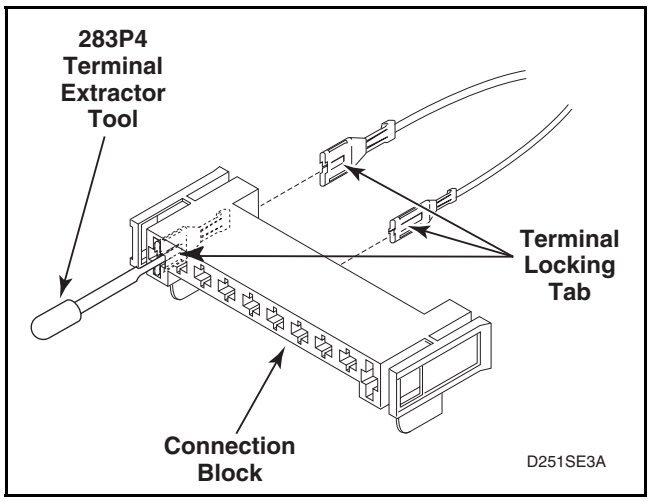

Figure 59

o. **Motor Connection Block Terminals**
Remove terminals from the motor wire harness connection block using No. 283P4 Terminal Extractor Tool as follows:
(1) Insert the tool into the block on the back of the terminal being removed. Refer to *Figure 59*.
(2) Apply tool pressure to compress the terminal locking tab on terminal and force the terminal and wire out back side of connection block. Refer to *Figure 59*.

To install terminal in connection block, insert terminal (with wire securely crimped in place) into back side of connection block. Push terminal into connection block until locking tab on terminal spreads and holds terminal in place.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

99. DRYER FRONT BULKHEAD ASSEMBLY

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.

c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 40*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.

d. Disconnect wires from door switch. Refer to *Figure 46*.

NOTE: Refer to wiring diagram when rewiring switch.

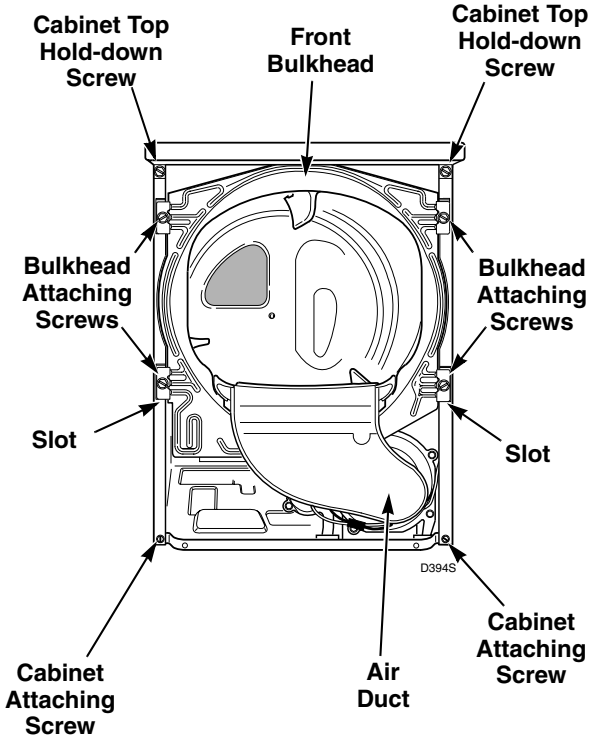

Figure 60

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

e. Disengage belt from motor and idler pulley. Refer to *Figure 55*.

f. Remove four screws holding bulkhead to front flange of cabinet and lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 60*.

g. Remove air duct assembly.

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 52*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

h. **Cylinder Glides and Glide Bracket.** Refer to *Figure 61*.

(1) Unsnap glide from each glide bracket.

(2) Drill out rivets holding glide bracket to front bulkhead.

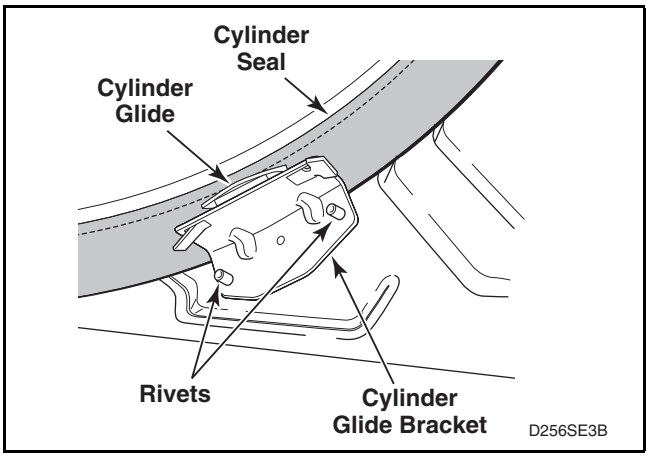

Figure 61

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

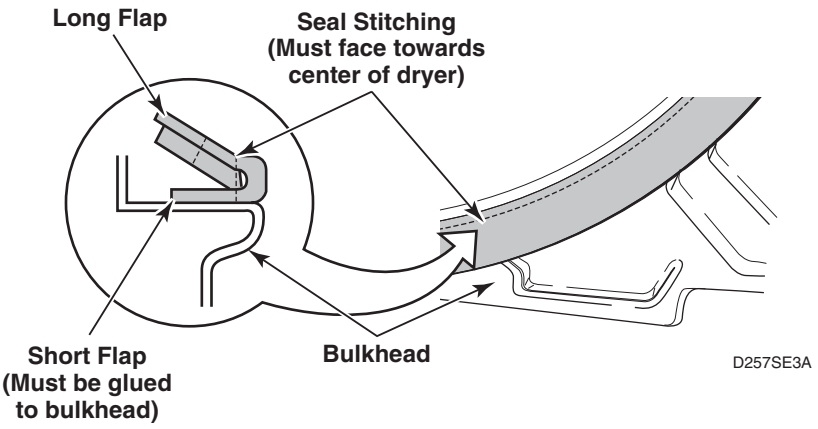

Figure 62

i. **Front Cylinder Seal** (Refer to *Figure 62*.)
When installing the cylinder seal, it is important to remember these two steps:
(1) The stitching on the seal must face towards center of dryer.
(2) The short flap must be glued to the bulkhead and the long flap left loose.

IMPORTANT: The replacement seal can be adhered to the bulkhead using No. 22506P Sealant. This is accomplished by applying a bead of sealant around the entire flanged area where the felt seal contacts the bulkhead.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

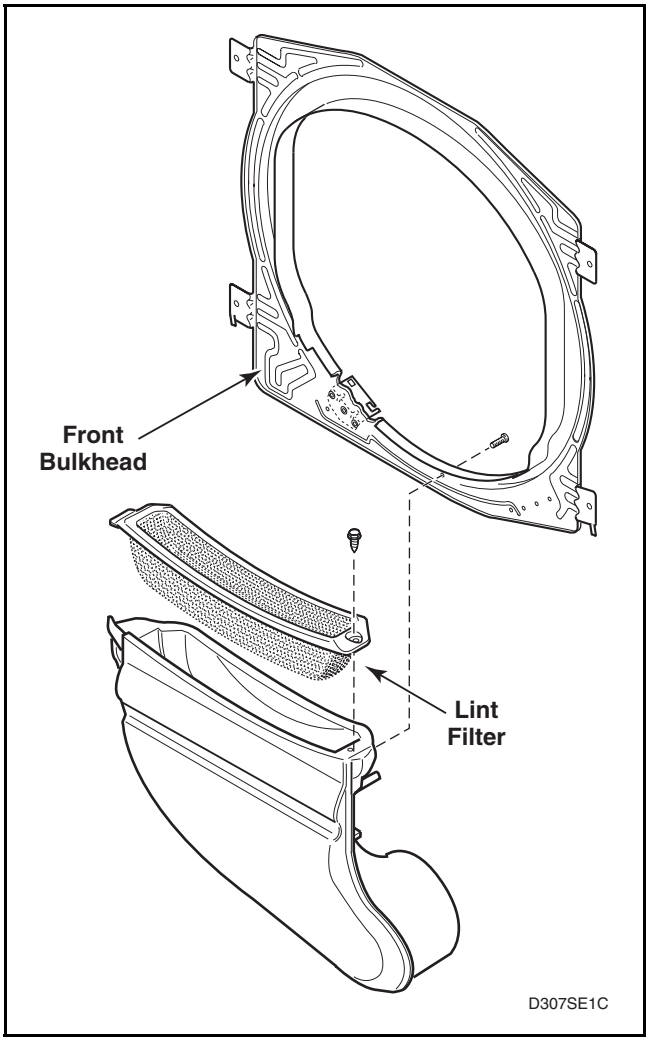

Figure 63

100. CYLINDER BELT

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.

c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 40*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.

d. Disconnect wires from door switch. Refer to *Figure 46*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys. Refer to *Figure 55*.

f. Remove four screws holding bulkhead to front flange of cabinet. Then, lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 60*.

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 52*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

g. While supporting cylinder, carefully remove belt from cylinder.

NOTE: When reinstalling belt, be sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever. Refer to *Figure 55*. Belt must be positioned around center section of cylinder approximately three inches ahead of rear rib on cylinder. Refer to *Figure 64*. After installing belt, manually rotate cylinder counterclockwise to check that belt is properly aligned.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

101. DRYER CYLINDER ASSEMBLY

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.

c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 40*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.

d. Disconnect wires from door switch. Refer to *Figure 46*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys. Refer to *Figure 55*.

NOTE: When reinstalling belt, be sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever. Refer to *Figure 55*. Belt must be positioned around center section of cylinder approximately three inches ahead of rear rib on cylinder, with the ribbed surface of the belt against the cylinder. Refer to *Figure 64*. After installing belt, manually rotate cylinder counterclockwise to check that belt is properly aligned.

f. Remove four screws holding bulkhead to front flange of cabinet. Then lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 60*.

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 52*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

g. Remove two cabinet top hold-down screws. Refer to *Figure 60*.

h. Carefully remove cylinder out through front of dryer.

i. Baffles – Remove screws holding baffles to cylinder. Refer to *Figure 64*.

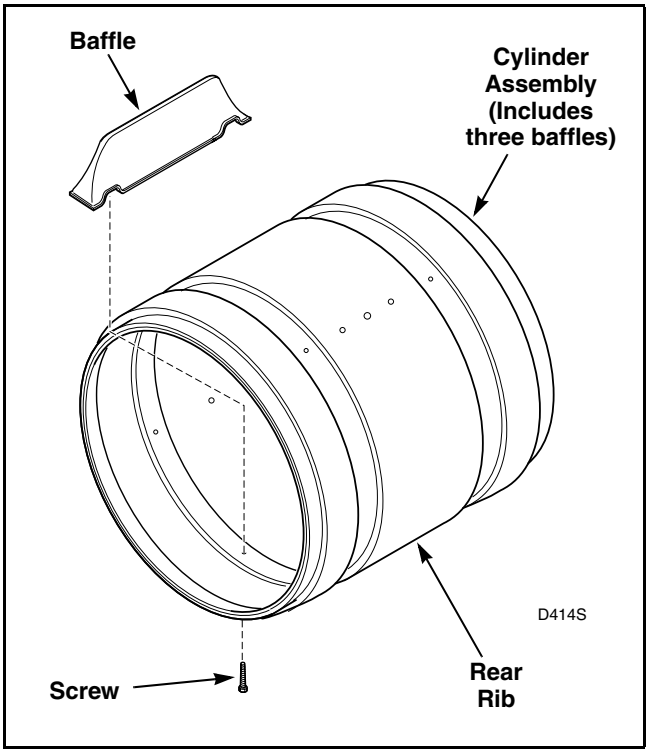

Figure 64

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

102. DRYER REAR SEAL

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.

c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 40*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.

d. Disconnect wires from door switch. Refer to *Figure 46*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Remove two cabinet top hold-down screws. Refer to *Figure 60*.

f. Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets.

NOTE: Cabinet top may be raised and hinged on the rear hold-down brackets, or supported against wall behind the dryer.

g. Disengage belt from motor and idler pulleys. Refer to *Figure 55*.

NOTE: When reinstalling belt, be sure belt is properly installed on motor and idler pulleys and is on the correct side of the idler pulleys. Refer to *Figure 55*. Belt must be positioned around center section of cylinder approximately three inches ahead of rear rib on cylinder with the ribbed surface of the belt against cylinder. Refer to *Figure 64*. After installing belt, manually rotate cylinder counterclockwise to check that belt is properly aligned.

h. Remove four screws holding bulkhead to front flange of cabinet. Then, lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 60*.

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 52*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

i. Manually rotate cylinder until one of the baffles is at the 6 o'clock position and carefully remove cylinder out through front of dryer.

j. Pull rear cylinder seal from flanged edge of bulkhead. Refer to *Figure 65*.

NOTE: When installing the cylinder seal, it is important to remember these two important steps:

(1) The stitching on the seal must face towards the dryer center. Refer to *Figure 62*.

(2) The short flap, shown in *Figure 62*, must be glued to the bulkhead and the long flap left loose.

IMPORTANT: The seal can be adhered to the bulkhead using replacement sealant No. 22506P. This is accomplished by applying a bead of sealant around the entire flanged area where the felt seal contacts the bulkhead.

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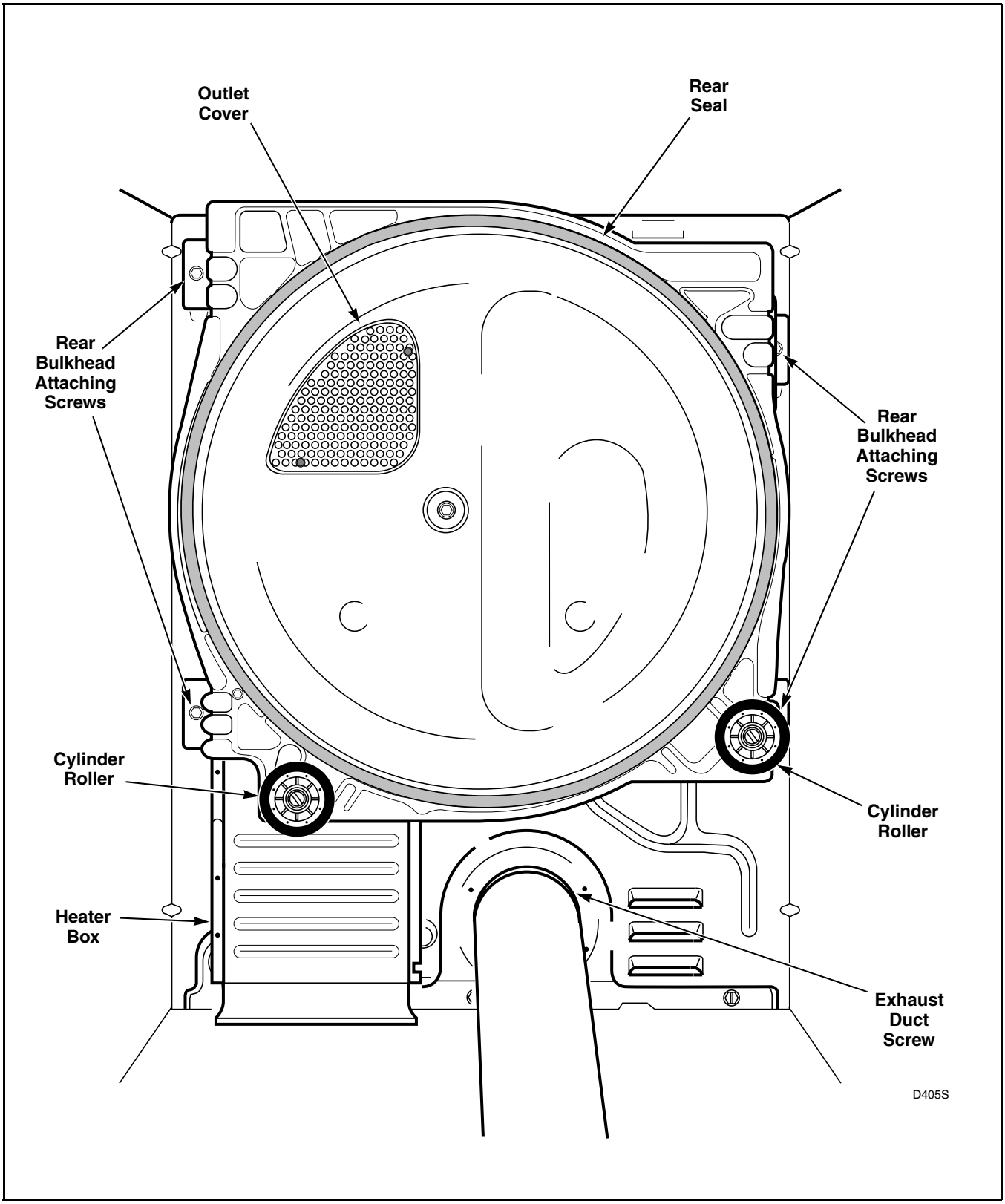

Figure 65

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

103. CYLINDER ROLLERS

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.
b. Gently lower the access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 47*.
c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 40*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
d. Disconnect wires from door switch. Refer to *Figure 46*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys. Refer to *Figure 55*.
f. Remove four screws holding bulkhead to front flange of cabinet. Then lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 60*.

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 52*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

g. Pull cylinder forward allowing rear of cylinder to drop down exposing rollers. Refer to *Figure 66*.
h. Refer to *Figure 66* for removal of roller from bulkhead.

NOTE: When replacing the cylinder roller, it is important that cylinder roller is installed with the flanged surface of the roller bearing facing towards the front of the dryer.

104. OUTLET COVER

a. Open door and remove two screws holding outlet cover to rear bulkhead. Refer to *Figure 65*.

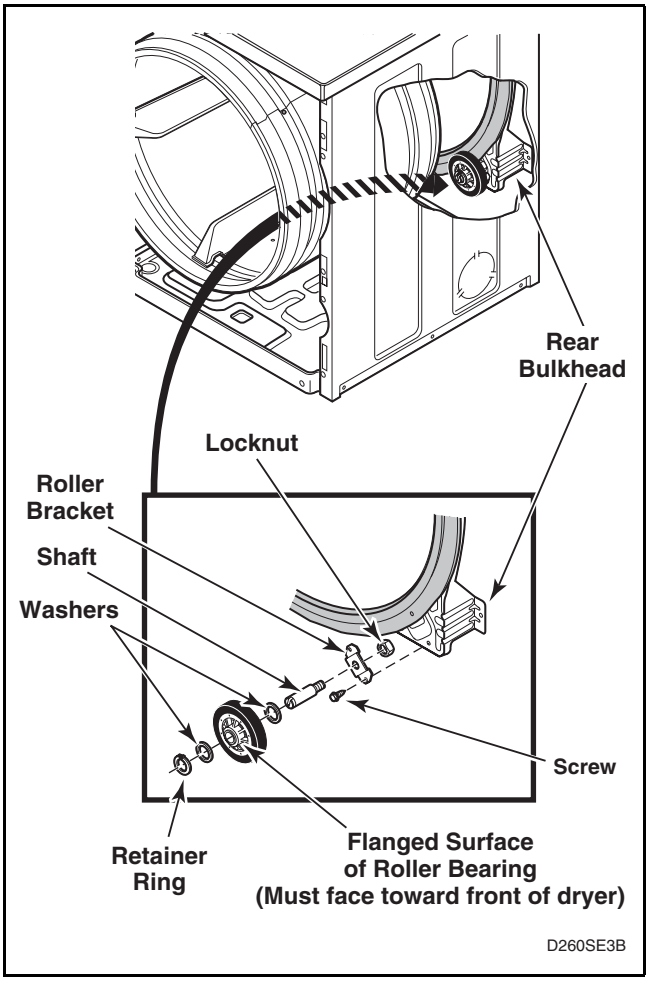

Figure 66

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

105. REAR BULKHEAD AND HEATER BOX

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.

b. Gently lower the access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 47*.

c. Remove two screws from bottom tabs on front panel. Refer to *Figure 40*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.

d. Disconnect wires from door switch. Refer to *Figure 46*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys. Refer to *Figure 55*.

NOTE: When reinstalling belt, be sure belt is properly installed on motor and idler pulleys and is on the correct side of the idler pulleys. Refer to *Figure 55*. Belt must be positioned around cylinder approximately three inches ahead of rear rib on cylinder with the ribbed surface of the belt against the cylinder. Refer to *Figure 64*. After installing belt, manually rotate cylinder counterclockwise to check that belt is properly aligned.

f. Remove four screws holding bulkhead to front flange of cabinet. Then lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 60*.

WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. Refer to *Figure 52*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

g. Remove two cabinet top hold-down screws. Refer to *Figure 60*.

h. Carefully remove cylinder out through front of dryer.

i. **Gas Models:**

(1) Disconnect igniter wires at disconnect blocks, sensor wires from sensor terminals, and wires from gas valve coils at the quick disconnect blocks. Refer to *Figure 49*.

(2) Remove burner tube attaching screw from right side of burner housing, while holding burner tube in place. Refer to *Figure 51*.

(3) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. Refer to *Figure 50*.

(4) Carefully rotate burner tube and igniter **counterclockwise** so tab is at the 8 o'clock position.

(5) Move air shutter end of burner tube slightly to right and CAREFULLY remove burner tube and igniter assembly out through front of dryer. Refer to *Figure 50*.

IMPORTANT: The igniter is very fragile. Be careful not to damage it during removal.

(6) Remove screw holding burner housing to heat shroud. Refer to *Figure 49*.

(7) Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer. Refer to *Figure 51*.

(8) Remove two screws holding shroud to heater box, and remove shroud out through front of dryer. Refer to *Figure 49*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

j. **Electric Models:**
   (1) Remove two screws holding element and plate to heater box, then pull element down and away from heater box. Refer to *Figure 51*.
   (2) Remove all wires from terminal block. (Refer to appropriate wiring diagram when rewiring terminal block.)
   (3) Remove screw holding terminal block to rear bulkhead. Refer to *Figure 68*.

k. While supporting bulkhead, remove the four screws holding rear bulkhead to dryer cabinet, then lift complete assembly out of dryer. Refer to *Figure 65*.

l. Remove heater box from rear bulkhead. Refer to *Figure 67*.

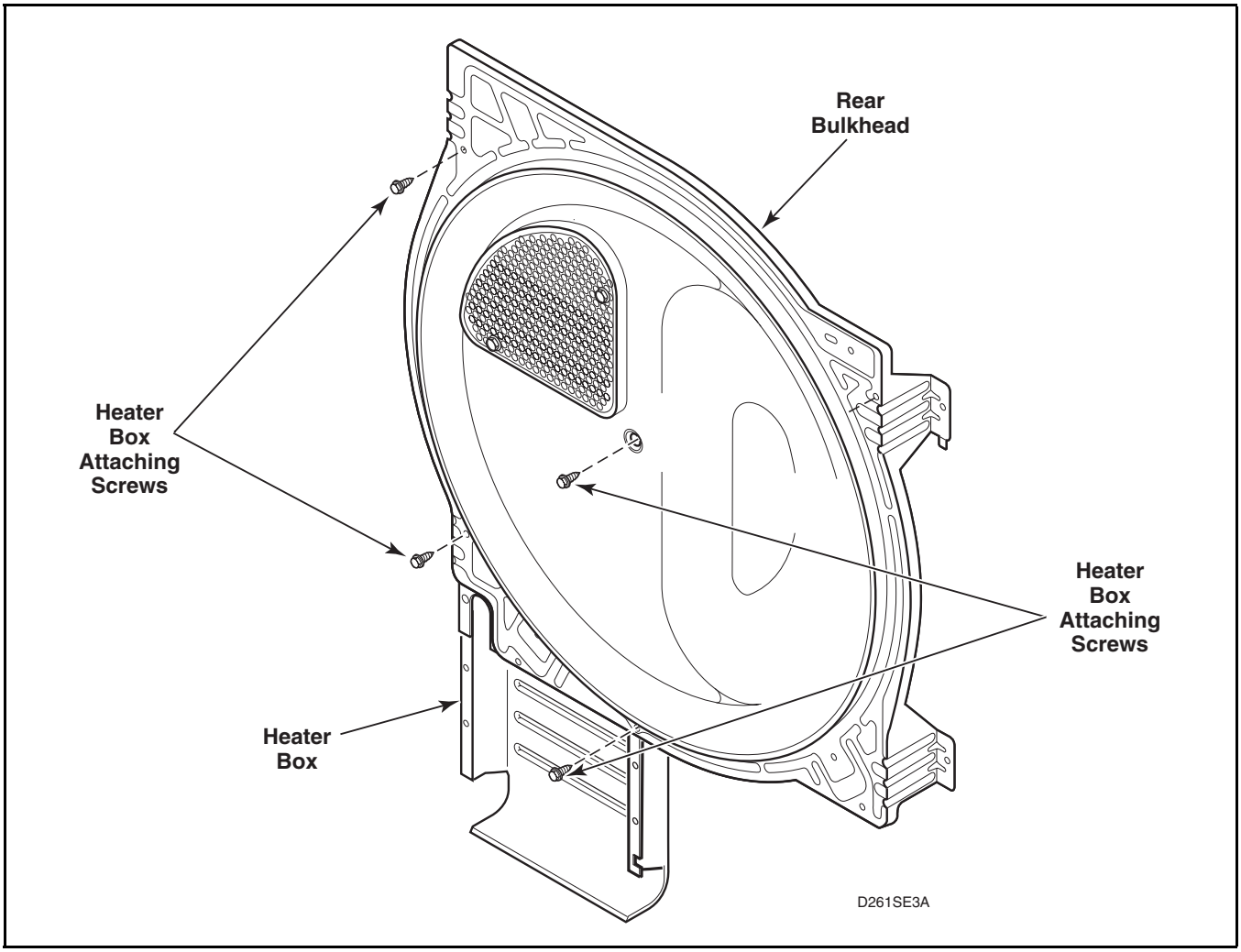

Figure 67

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

106. TERMINAL BLOCK OR POWER CORD

a. **Terminal Block:**

(1) While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.

(2) Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.

(3) Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 40*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.

(4) Disconnect wires from door switch. Refer to *Figure 46*.

NOTE: Refer to wiring diagram when rewiring switch.

(5) Remove two cabinet top hold-down screws. Refer to *Figure 41*.

(6) Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets. Refer to *Figure 42*.

NOTE: When servicing, cabinet top may be raised and hinged on the rear hold-down brackets, or supported against wall behind the dryer.

(7) Remove all wires from terminal block.

NOTE: Refer to wiring diagram when rewiring terminal block.

(8) Remove screw holding terminal block to rear bulkhead. Refer to *Figure 68*.

NOTE: Do not let terminal block insulation drop when removing the block. Insulation must be in place when reinstalling block.

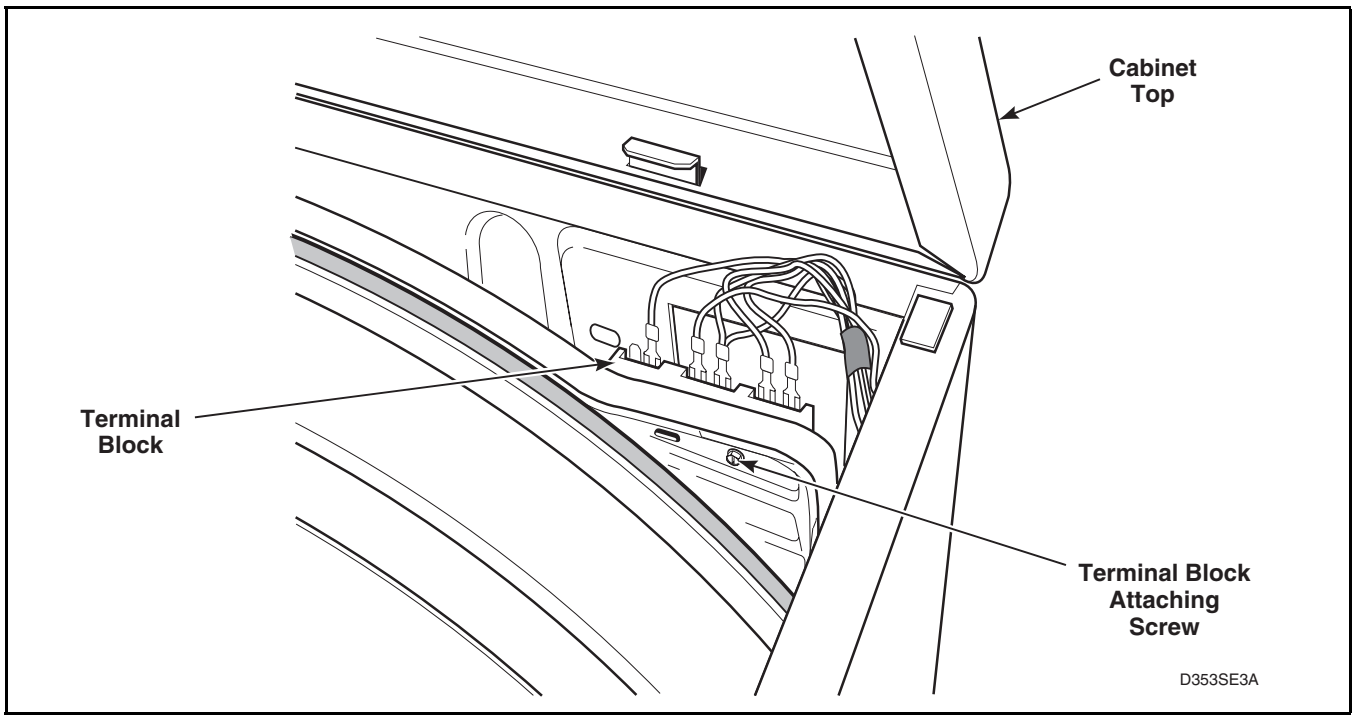

Figure 68

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

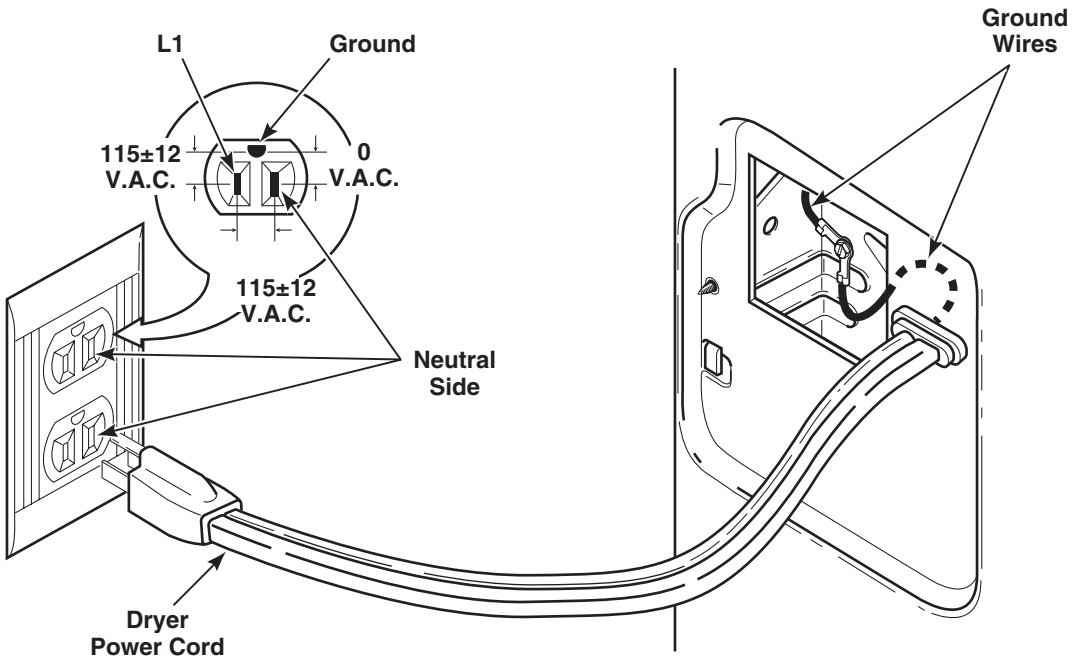
W502

b. **Power Cord:**
   (1) Remove access plate on rear of cabinet.
   (2) Remove strain relief.
   (3) Remove screw holding power cord ground wire to rear bulkhead. Refer to *Figure 69*.

NOTE: Reinstall screw and ground wires into same hole in bulkhead when reinstalling power cord.

   (4) Disconnect molex plug and remove power cord from rear of dryer cabinet.

NOTE: A qualified electrician should check the polarity of the wall receptacle. If a voltage reading is measured other than that illustrated, the qualified electrician should correct the problem.



(120 VOLT, 60 HERTZ SHOWN)

D354SE3A

Figure 69

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Notes

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Section 6
Adjustments

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

IMPORTANT: When reference is made to directions (right or left) in this manual, it is from operator's position facing front of washer.

107. CABINET LEVELING LEGS

a. Place washer in position on a clean, firm and reasonably level floor. Installing the washer on any type of carpeting is not recommended.

b. Loosen locknuts and adjust the leveling legs until the washer **does not rock**. Refer to *Figure 70*.

c. Tighten the locknuts securely against the washer base. If the locknuts are not tight, washer will move out of position during operation.

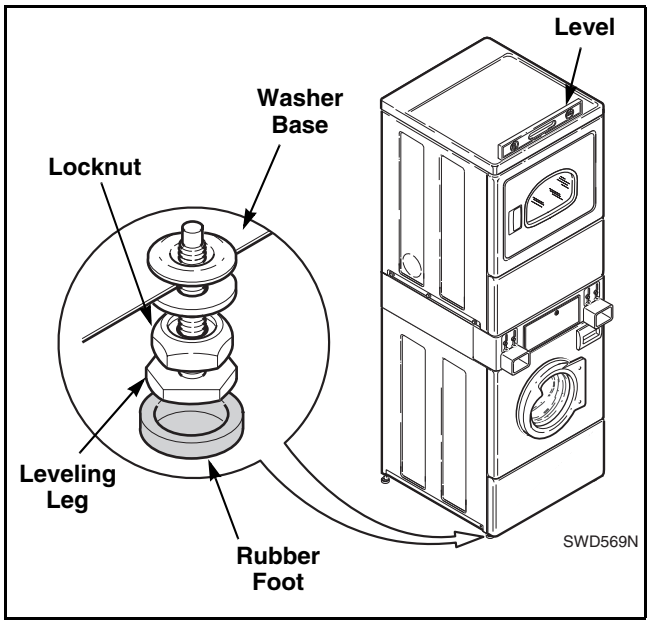

Figure 70

CAUTION

DO NOT slide washer across floor if the leveling legs have been extended, as legs and base could become damaged.

W248

CAUTION

Use of the dispenser drawer or washer door as a handle in the transportation of the washer may cause damage to the dispenser or door.

W185

d. Place rubber feet on all four leveling legs. Refer to *Figure 70*.

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WARNING

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

108. WASHER LOADING DOOR

a. Open loading door.

b. Remove door bezel to gain access to nuts. Refer to *Figure 71*.

c. The loading door can be adjusted up or down somewhat by loosening screws holding door to hinge, then raise or lower door before retightening screws. Refer to *Figure 71*.

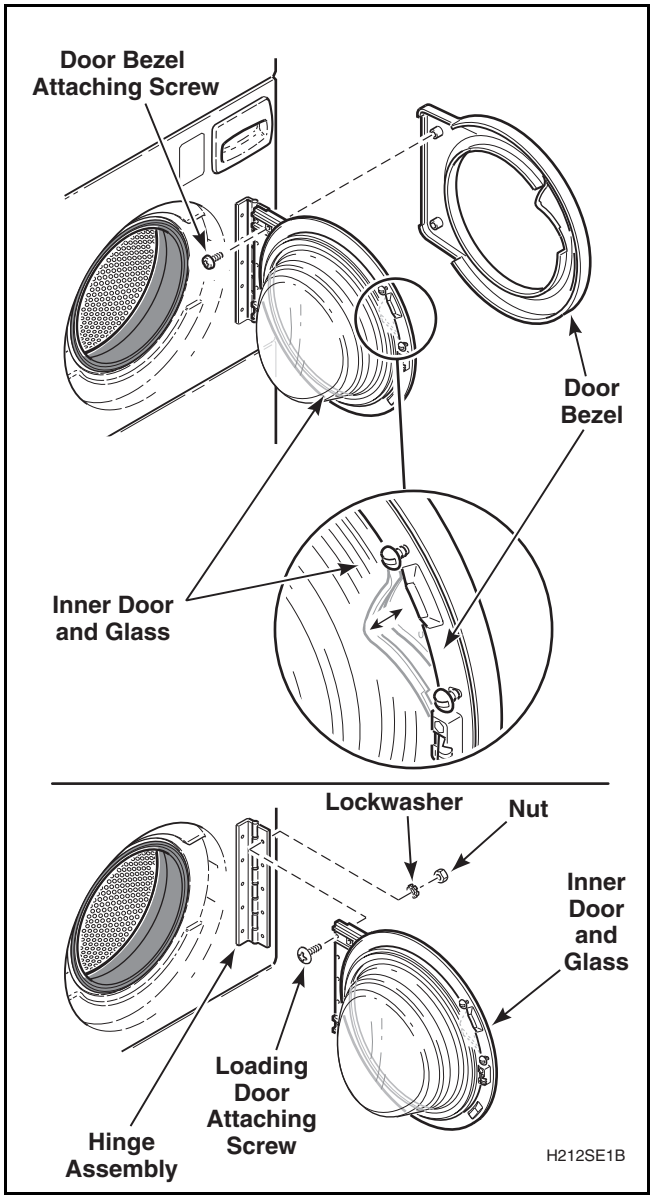

Figure 71

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

109. WASHER MOTOR BELT TENSION

NOTE: Belt adjustment procedures are done through front of washer, however, as an option, washer can be moved from its location and belt adjustment can be done through lower access panel opening on rear panel.

a. While supporting lower front access panel, remove two screws from bottom edge of access panel and remove panel. Refer to *Figure 19*.
b. Working through the access door opening, place a locking pliers on the metal rod and loosen the two adjusting bolts. Refer to *Figure 72*. Repeat procedure to loosen the two pivot bolts. Refer to *Figure 72*.
c. Pull down on motor to increase belt tension. Use a Burroughs belt gauge to obtain proper tension. Proper belt tension is obtained when belt can be deflected approximately 1/4 inch (6.35 mm) from normal position when moderate pressure 50 to 60 pounds (22.68 to 27.22 Kg) is applied to a point midway between pulleys. Refer to *Figure 72*.
d. After proper belt tension has been obtained, tighten belt adjusting bolts firmly, then tighten pivot bolts. Refer to *Figure 72*.

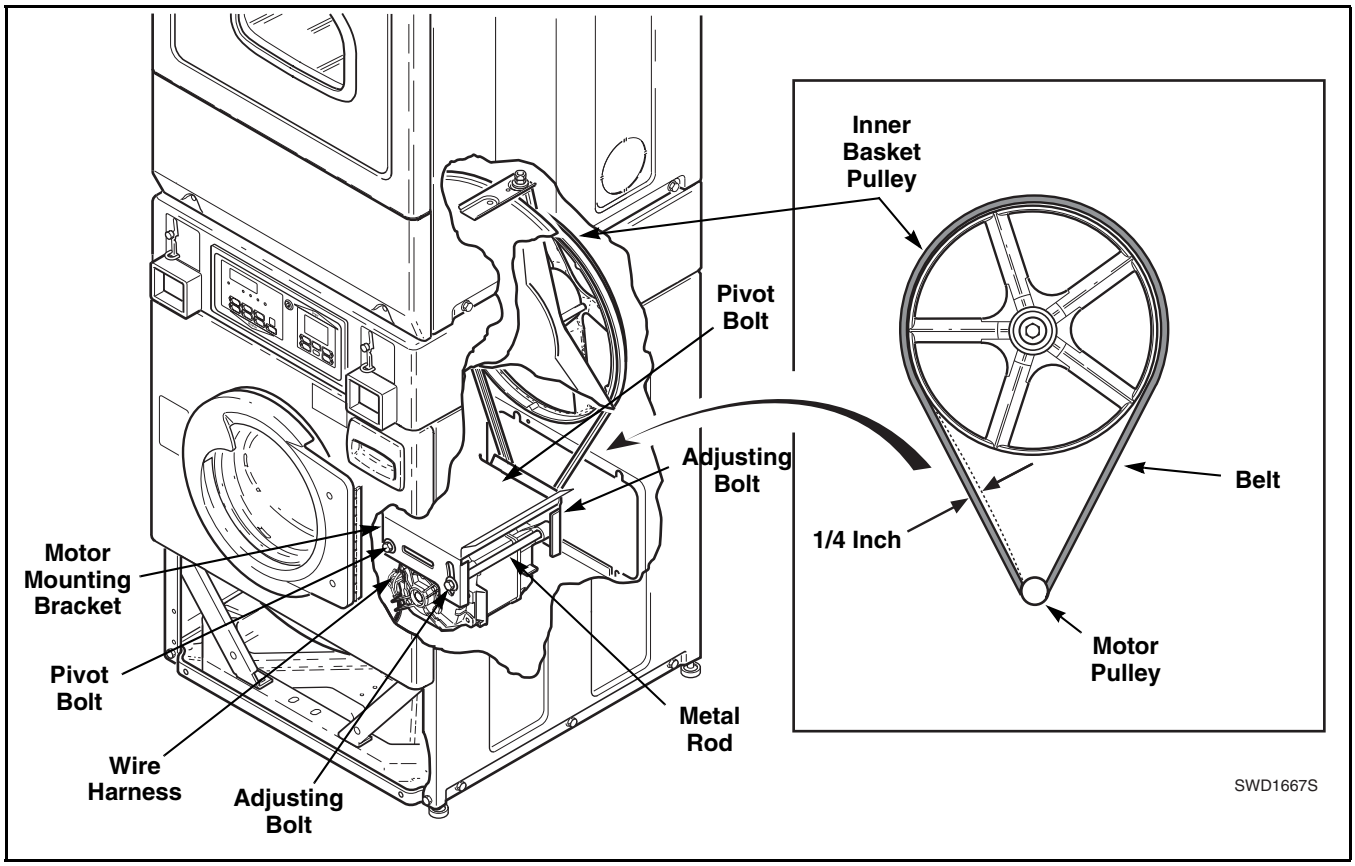

Figure 72

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

110. WASHER DOOR CATCH

NOTE: When repairing a broken or inoperative No. 685430 Door Catch, proceed as follows:

a. Remove door bezel.
b. Remove two screws and nuts holding door catch to door and remove door catch.
c. Install new door catch and tighten screws and nuts to the point of being snug.
d. Adjust door catch so the outside edge is aligned with the edge of the latch. Refer to *Figure 73*.
e. Visually check that the door catch properly engages the funnel of the door latch/switch assembly. Refer to *Figure 73*.
f. Recheck the alignment in step “d”. Adjust if needed.
g. Torque the two nuts to approximately 30 inch pounds (3.4 Nm).
h. Reinstall door bezel.

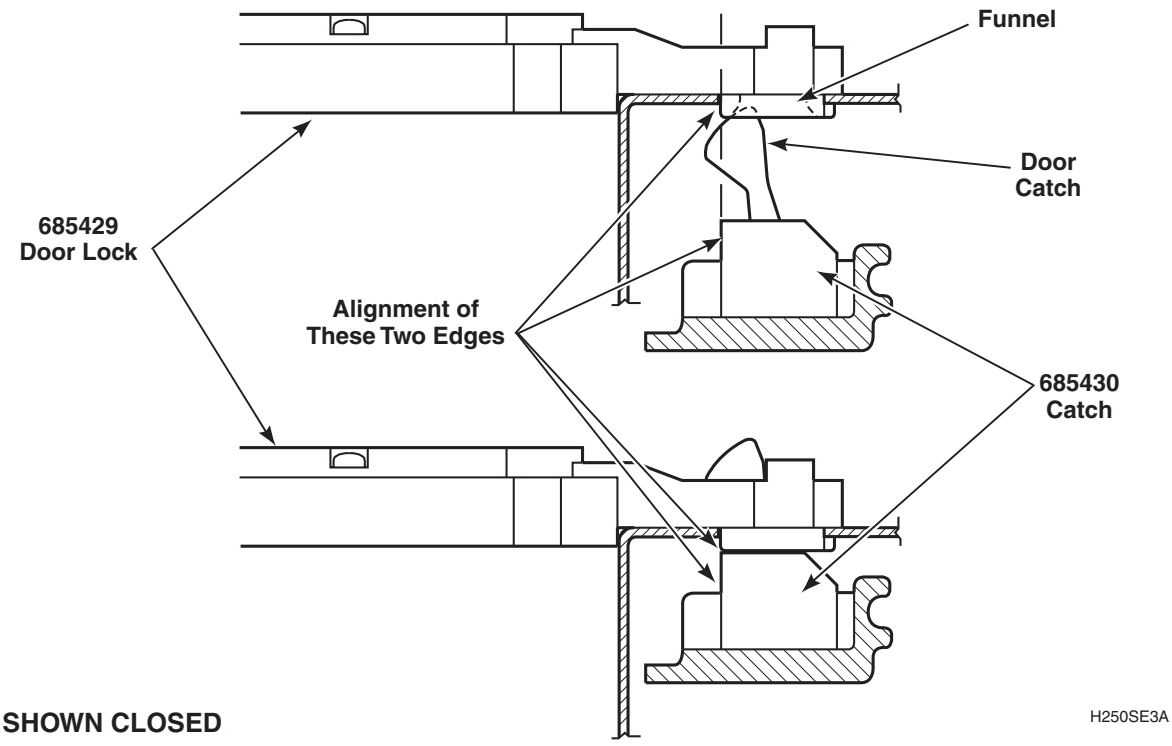

Figure 73

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

111. SHIPPING BRACES

All stacked washer/dryers, when shipped from the factory are equipped with two factory installed shipping supports. DO NOT remove this shipping material until after machine is placed in its final installed position. Refer to *Figure 74*.

IMPORTANT: DO NOT tip or move washer once these supports have been removed. Removal of supports prior to final installation may cause damage to the shock absorbers and will VOID the product warranty.

NOTE: Shipping supports MUST be kept for future re-positioning or moving of the machine.

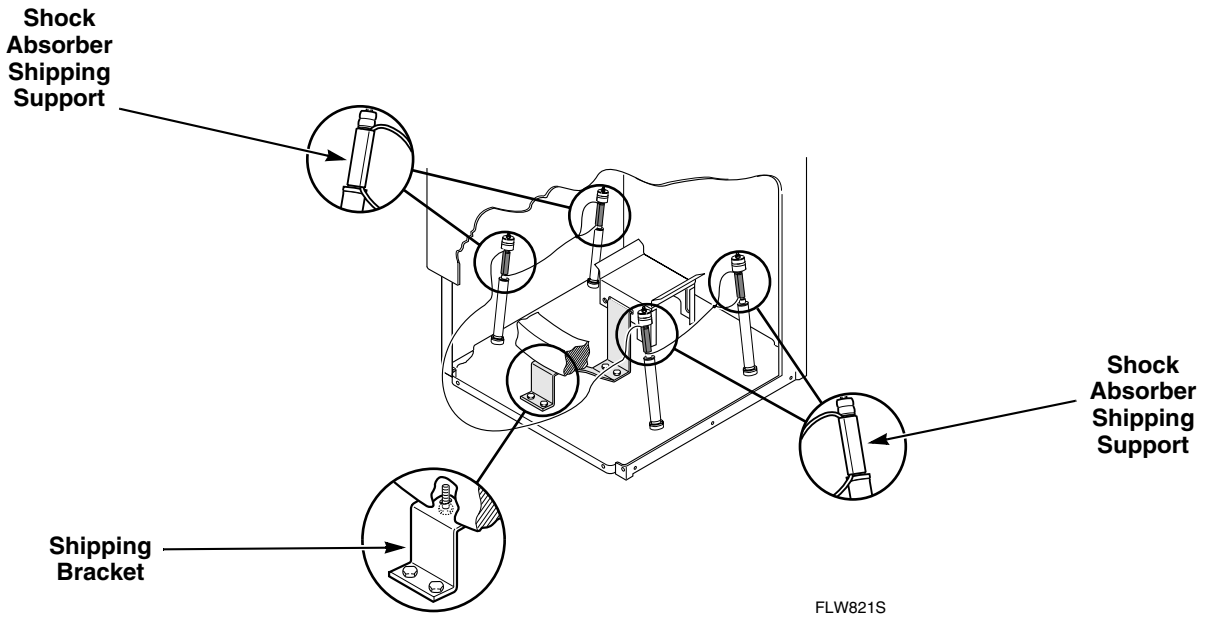

Figure 74

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WARNING

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

112. BURNER FLAME (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.
c. Add coins or card to satisfy vend.
d. Close the loading door. Start the dryer in a heat setting (refer to Operating Instructions supplied with the dryer). The dryer will start, the igniter will glow red, and the main burner will ignite.
e. Allow the dryer to operate for approximately five minutes, then loosen the air shutter lockscrew. Refer to *Figure 75*.
f. Turn the air shutter to the left to get a luminous yellow tipped flame, then turn it back slowly to the right to obtain a steady blue flame.
g. After proper flame is obtained, tighten air shutter lockscrew firmly. Refer to *Figure 75*.
h. Reinstall access panel and screws.

WARNING

To reduce the risk of fire or serious injury, the access panel must be in place during normal operation.

W262

NOTE: After the dryer has operated for approximately three minutes, exhaust air or exhaust pipe should be warm.

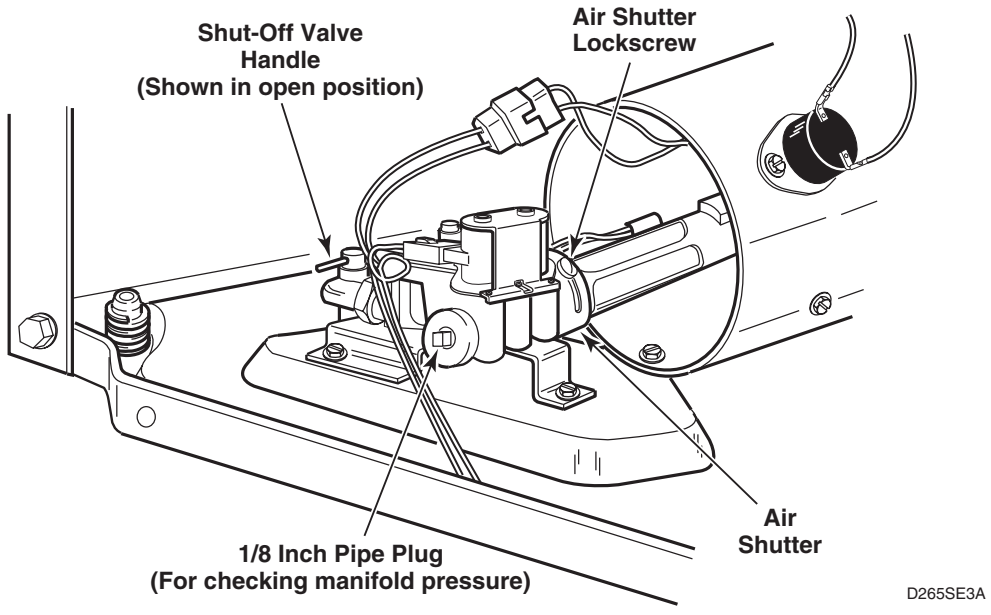
Shut-Off Valve Handle (Shown in open position)
Air Shutter Lockscrew
Air Shutter
1/8 Inch Pipe Plug (For checking manifold pressure)
D265SE3A

Figure 75

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

113. CLEANING NON-ELECTRONIC COIN DROP

a. Disconnect electrical power to machine and drop.

b. Remove coin drop from machine. Refer to *Paragraph 57*.

c. If lint is preventing coins from rolling through coin drop, blow compressed air though coin entry and along the side of the coin drop. Refer to *Figure 76***.**

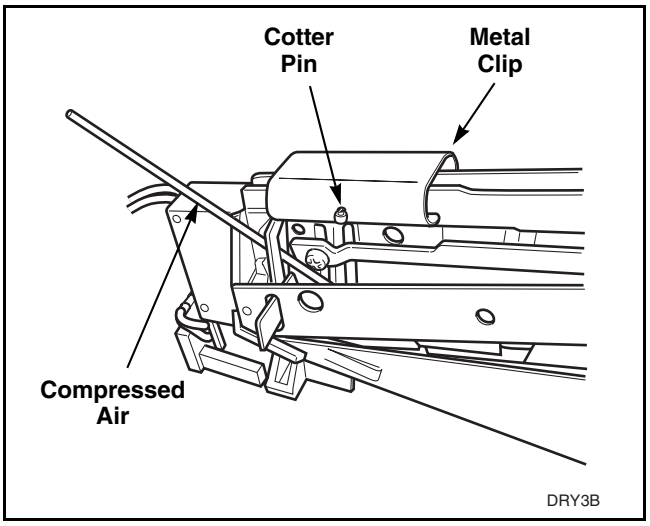

Figure 76

d. Insert a coin through the coin drop. If coin does not roll through drop, continue with the following.

e. Remove cotter pin from top of drop. Refer to *Figure 76***.** Save pin for reinstallation when cleaning is complete.

f. Move metal clip closer to sensor so that it comes off frame. Refer to *Figure 76***.**

g. Remove coin return from coin drop frame. Refer to *Figure 77***.**

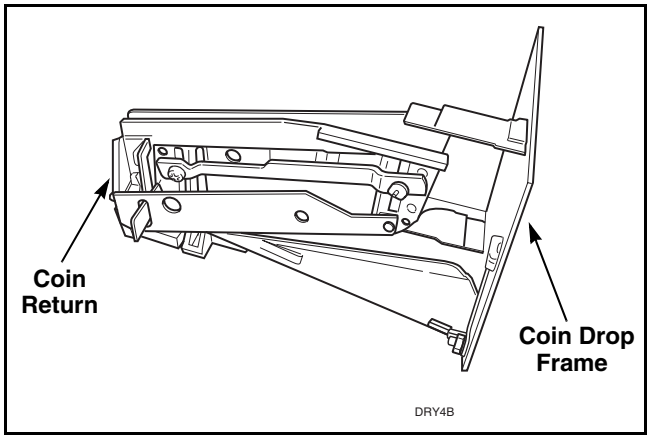

Figure 77

h. Check coin path in coin drop for lint and residue. If lint or light residues are present, use a cotton swab to remove. If heavy residue is present, it may be necessary to first scrape off excessive residue and then use a cotton swab dipped in water or isopropyl alcohol (rubbing alcohol) to remove remainder of residue. Refer to *Figure 78***.**

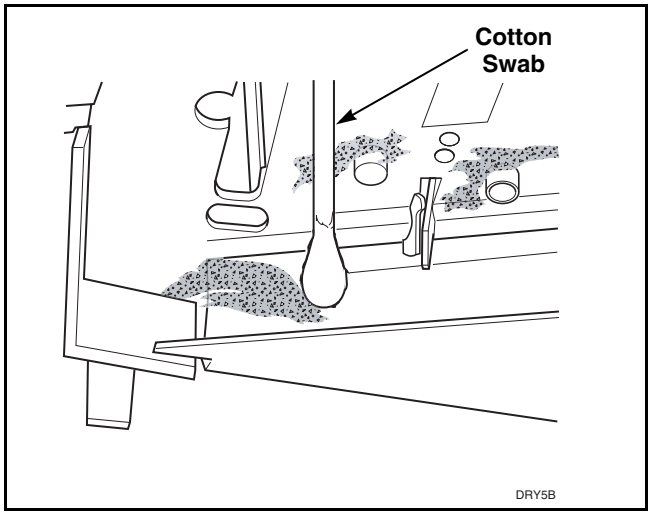

Figure 78

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

i. Check coin return pendulum to verify it swings freely. If pendulum does not swing freely, spray pendulum pivot point with Teflon based lubricant and move pendulum back and forth two to three times. An additional application of Teflon based lubricant may be necessary to ensure that pendulum swings freely. Refer to *Figure 79*.

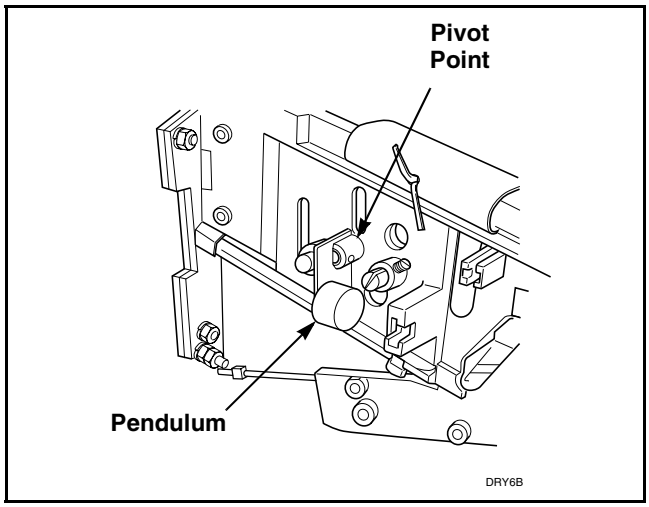

Figure 79

j. Check coin drop sensor for dust or dirt on eyes. Wipe eyes with dry cotton swab. Refer to *Figure 80*.

IMPORTANT: DO NOT use isopropyl alcohol to clean electronic sensor or eyes.

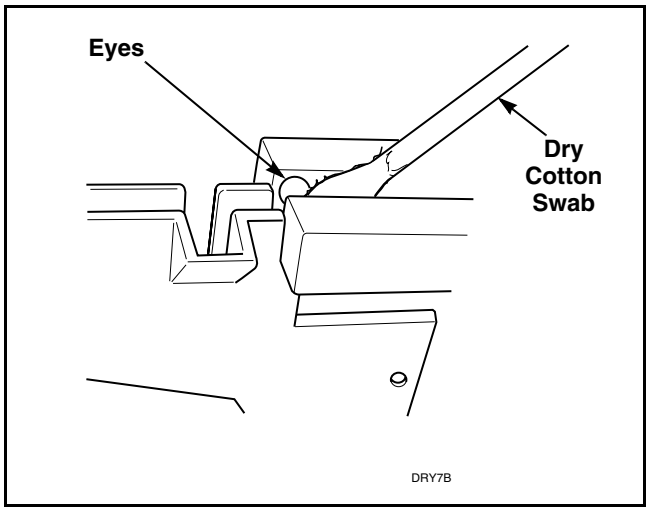

Figure 80

k. Reinstall coin return on to coin drop frame.
l. Reinstall metal clip and slide towards coin insert slot. All cotter pin holes must line up.
m. Reinstall cotter pin.
n. Place drop on level surface to verify that coins follow correct path in drop. It may be necessary to lift drop to allow coin to follow through sensor.
o. Reinstall coin drop into machine. Refer to *Paragraph 57*.
p. Reconnect electrical power to machine and drop.
q. Add a coin to drop to verify that coin drop is operating properly and that electrical connection is working properly.

NOTE: If coin drop does not operate properly after above steps have been completed, corrosion of metal or vandalized components within coin drop may be preventing the coin drop from functioning correctly. Replace coin drop.

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WARNING

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

114. CLEANING ELECTRONIC COIN DROP

NOTE: The electronic coin drop should be cleaned once a year. Clean the drop more often if it is exposed to high levels of residue or lint build-up.

a. Disconnect electrical power to machine and drop.
b. Remove coin drop from machine. Refer to *Paragraph 58*.
c. Move spring downward until cover catch is free. Refer to *Figure 81*.

NOTE: Do not lift or overbend the spring in any direction.

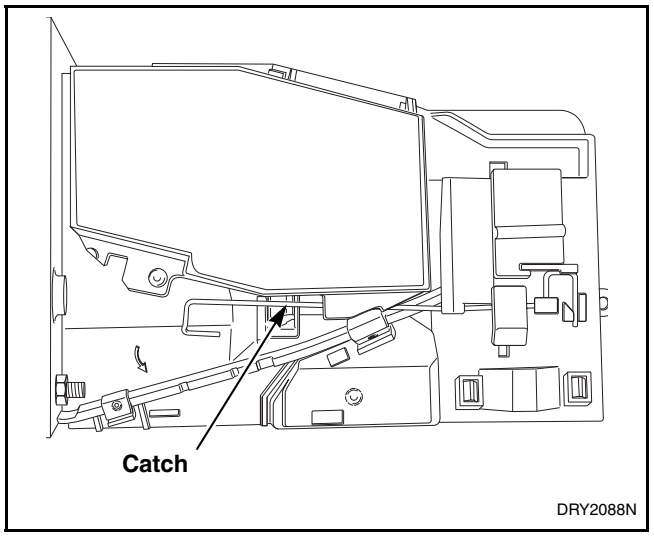

Figure 81

d. Open cover for coin drop. Refer to *Figure 82*.

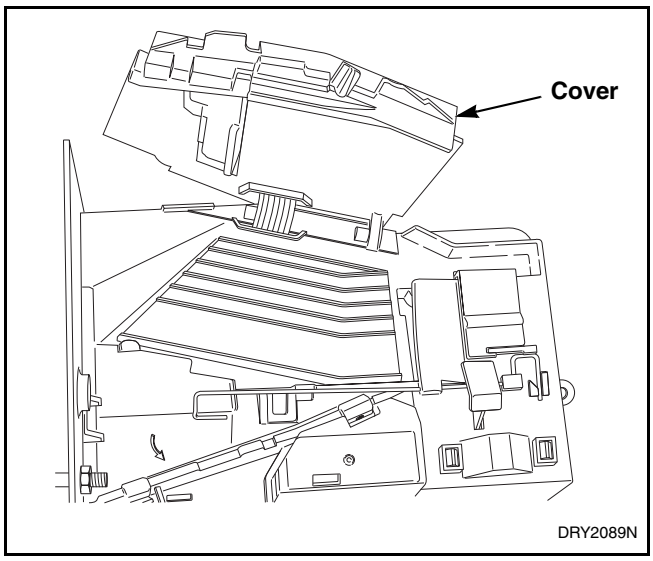

Figure 82

e. Clean the coin path with a soft brush and wipe exposed surfaces with an alcohol moistened cloth. Refer to *Figure 83*.

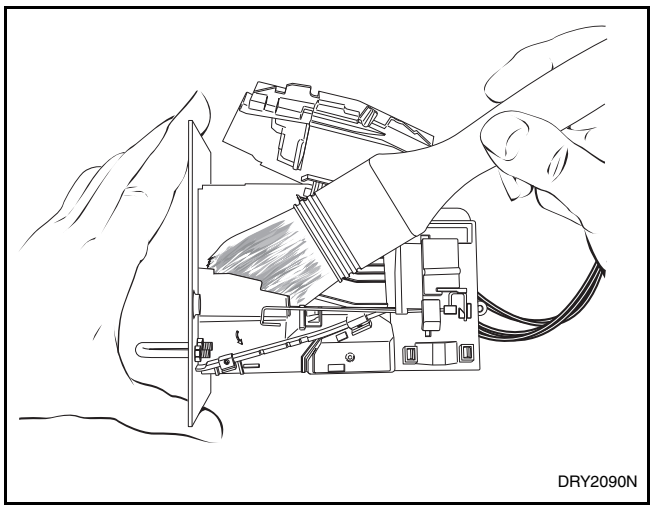

Figure 83

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WARNING

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

f. Clean residue from coin rail with an alcohol moistened cloth. Refer to *Figure 84*.

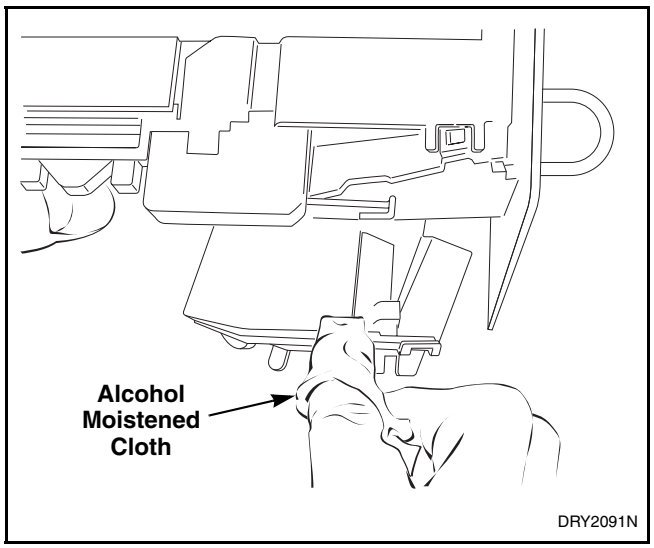

Figure 84

g. Clean light sensors with a soft brush or air spray duster. Refer to *Figure 85*.

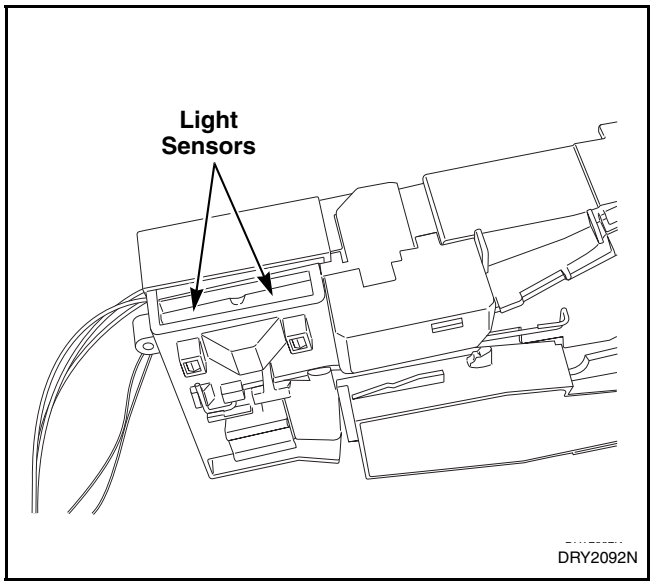

Figure 85

h. Close cover for coin drop.
i. Move spring back over cover catch.
j. Reinstall coin drop into machine. Refer to *Paragraph 58*.
k. Reconnect electrical power to machine and drop.
l. Add a coin to drop to verify that coin drop is operating properly and that electrical connection is working properly.

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Section 7
Dryer Test Procedures

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

IMPORTANT: Electrical test procedures in this service manual are performed by using a Volt-Ohm meter. Tests can also be performed using a multi-meter or any other electrical testing equipment with which the service person is familiar.

115. DRIVE MOTOR

Refer to *Figure 86*.

a. Remove motor and exhaust assembly. Refer to *Paragraph 98*.

b. Disconnect motor wire harness at motor disconnect block.

NOTE: Refer to wiring diagram for internal motor switch wires.

NOTE: Drive Motor Resistance

120 Volt	**2,460 – 3,100 Ohms**
240 Volt	**10,000 - 13,000 Ohms**

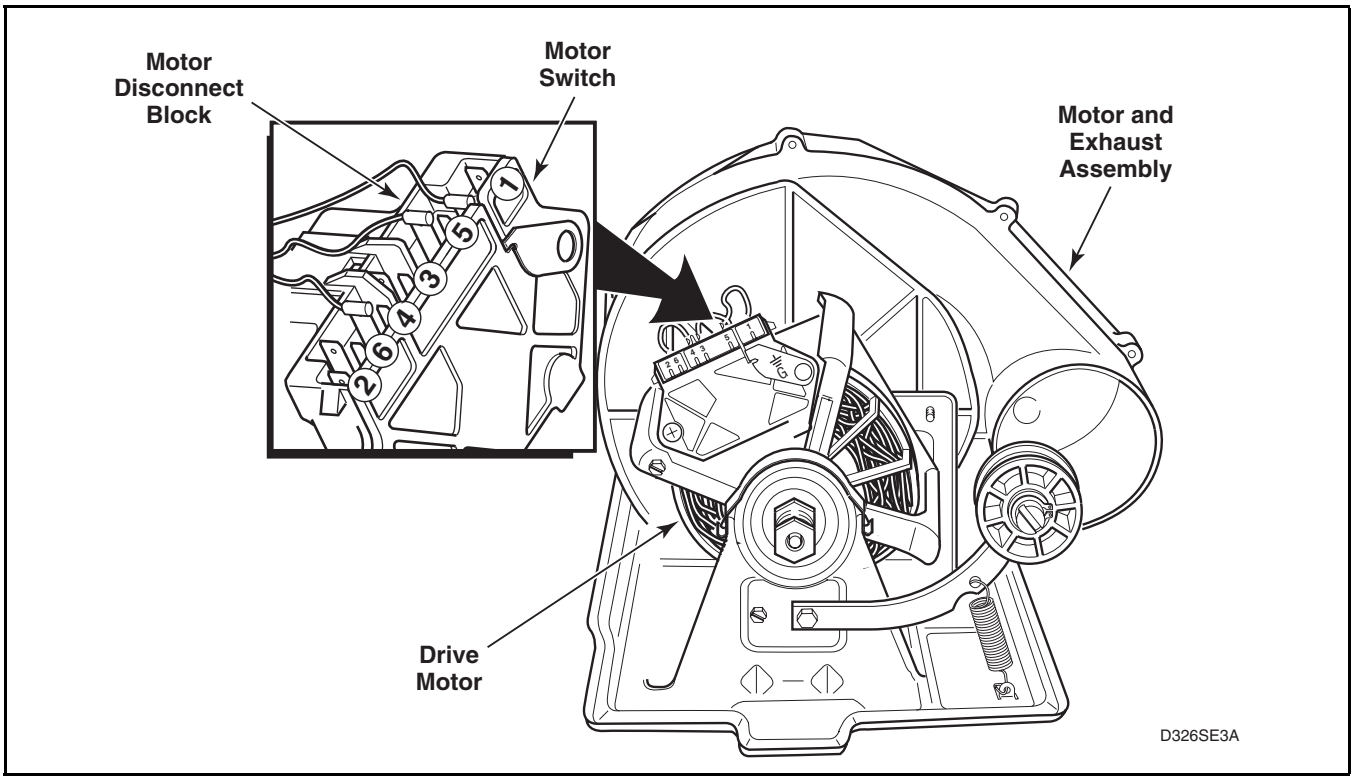

Figure 86

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

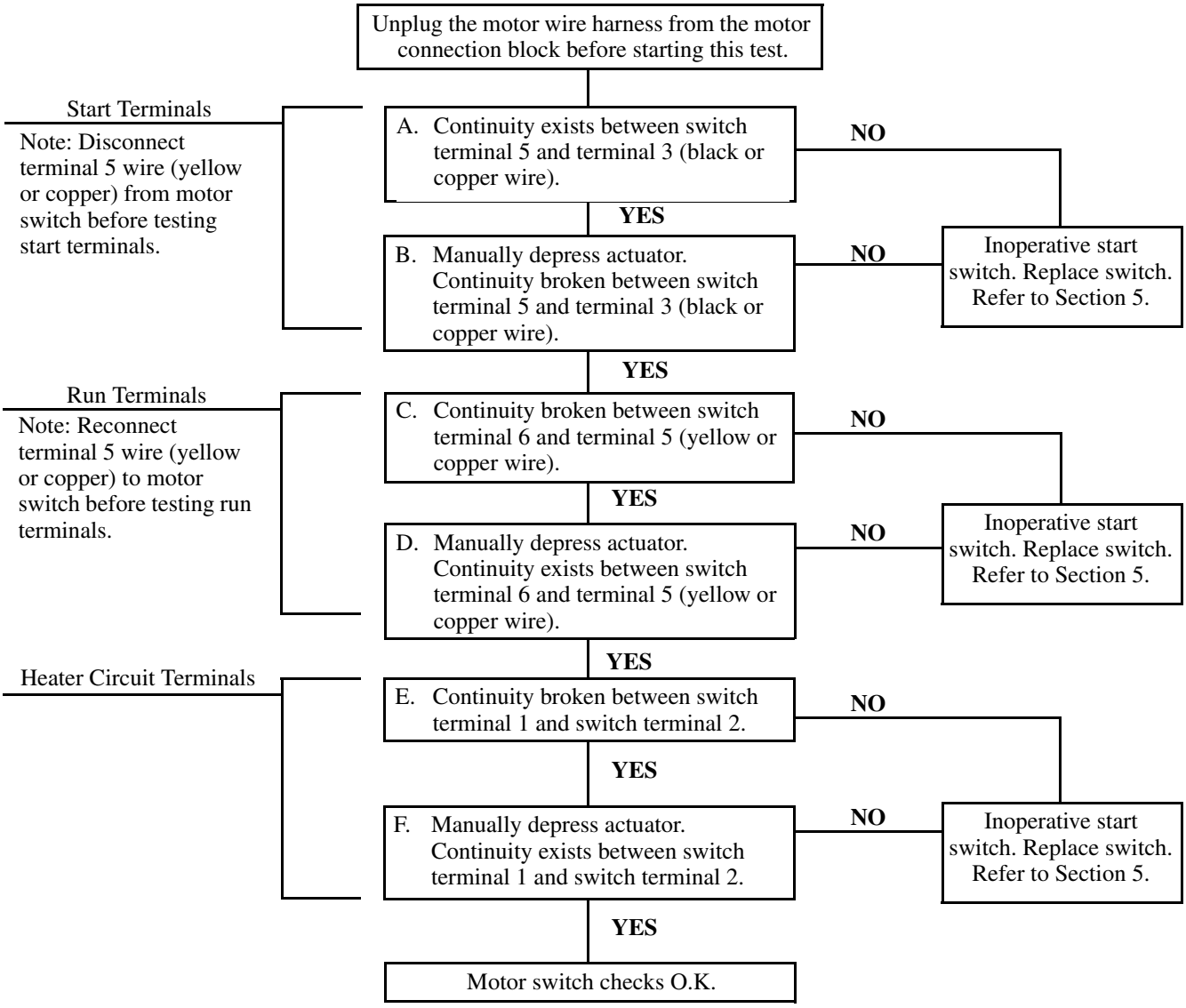
W502

c. **Motor Switch** (Refer to SECTION 8 for Internal Wiring of the Dryer Motor Switch.)

WARNING

Disconnect electric power to dryer before performing any of the following steps or when replacing inoperative motor switch.

W290


Unplug the motor wire harness from the motor connection block before starting this test.
Start Terminals
Note: Disconnect terminal 5 wire (yellow or copper) from motor switch before testing start terminals.
A. Continuity exists between switch terminal 5 and terminal 3 (black or copper wire).
NO
YES
B. Manually depress actuator. Continuity broken between switch terminal 5 and terminal 3 (black or copper wire).
NO
Inoperative start switch. Replace switch. Refer to Section 5.
YES
Run Terminals
Note: Reconnect terminal 5 wire (yellow or copper) to motor switch before testing run terminals.
C. Continuity broken between switch terminal 6 and terminal 5 (yellow or copper wire).
NO
YES
D. Manually depress actuator. Continuity exists between switch terminal 6 and terminal 5 (yellow or copper wire).
NO
Inoperative start switch. Replace switch. Refer to Section 5.
YES
Heater Circuit Terminals
E. Continuity broken between switch terminal 1 and switch terminal 2.
NO
YES
F. Manually depress actuator. Continuity exists between switch terminal 1 and switch terminal 2.
NO
Inoperative start switch. Replace switch. Refer to Section 5.
YES
Motor switch checks O.K.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

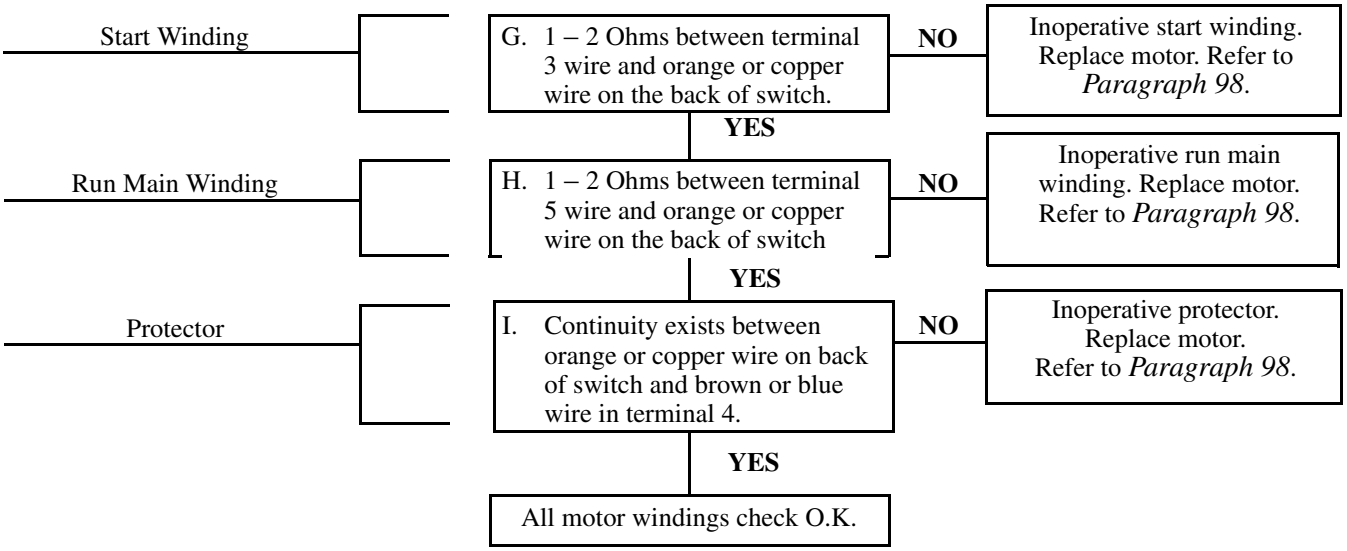
W502

d. **Motor Windings** (Refer to SECTION 8 for Internal Wiring of the Dryer Motor Switch.)

WARNING

Disconnect electric power to dryer before performing any of the following steps or when replacing inoperative motor switch.

W290


Start Winding
G. 1 – 2 Ohms between terminal 3 wire and orange or copper wire on the back of switch.
NO
Inoperative start winding. Replace motor. Refer to *Paragraph 98*.
YES
Run Main Winding
H. 1 – 2 Ohms between terminal 5 wire and orange or copper wire on the back of switch
NO
Inoperative run main winding. Replace motor. Refer to *Paragraph 98*.
YES
Protector
I. Continuity exists between orange or copper wire on back of switch and brown or blue wire in terminal 4.
NO
Inoperative protector. Replace motor. Refer to *Paragraph 98*.
YES
All motor windings check O.K.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

116. MOTOR SWITCH

a. Remove motor and exhaust fan assembly. Refer to *Paragraph 98*.

b. Remove the two motor switch attaching screws. Refer to *Figure 92*. Disconnect switch leads. Remove motor switch.

c. Remove thermal overload protector

NOTE: The thermal overload protector is unique to the motor from which it was removed and should only be used on that motor. To reduce the risk of overheating the motor, do not use any thermal overload protector other than the one taken from the inoperative motor switch in step 3.

(1) **Motor with Switch on Blower End** Using a small bladed screwdriver, press the thermal overload protector mounting tab downward and remove the thermal overload protector from the inoperative motor switch. Refer to *Figure 87*.

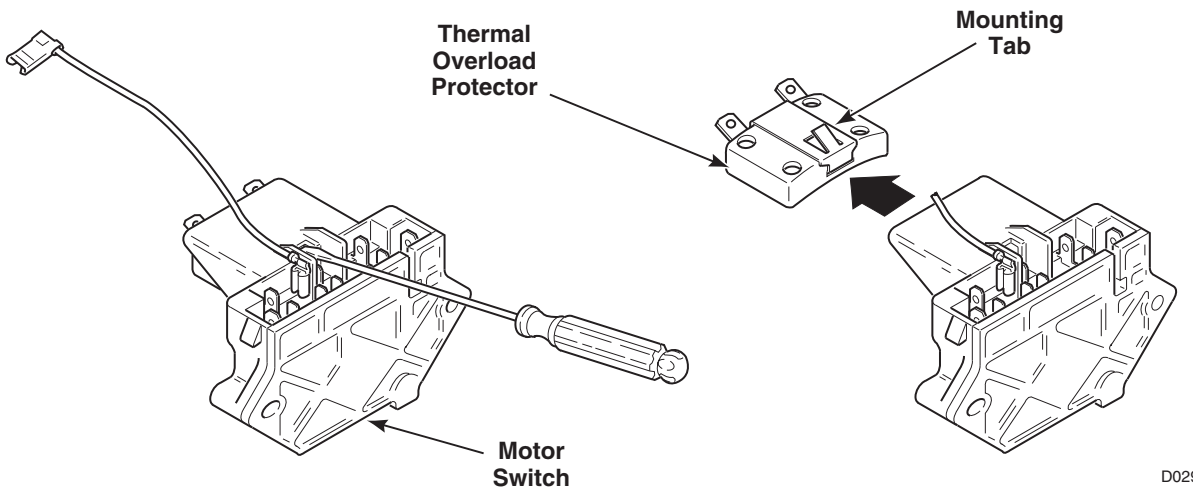

Figure 87

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

(2) **Motor with switch on pulley end**
Press the tip of a small bladed screwdriver into the slot located between top of motor switch and plastic clip. Lift up on handle of screwdriver until both clip and thermal overload protector detach from motor switch. Refer to *Figure 88*.

d. Attach the thermal overload protector removed in Step "c" to the new motor switch.

e. Install new motor switch onto motor and reconnect motor switch leads removed in Step "b". Refer to *Figure 92*.

f. Test motor switch by following the step-by-step procedures included in *Paragraph 115*.

g. Before reinstalling the motor assembly, apply power (120 VAC) directly to motor terminals 4 and 5. Then start and run the motor at least 6 times, making sure the motor and switch are operating properly.

NOTE: The dryer manufacturer and parts suppliers are not liable for improper switch installation.

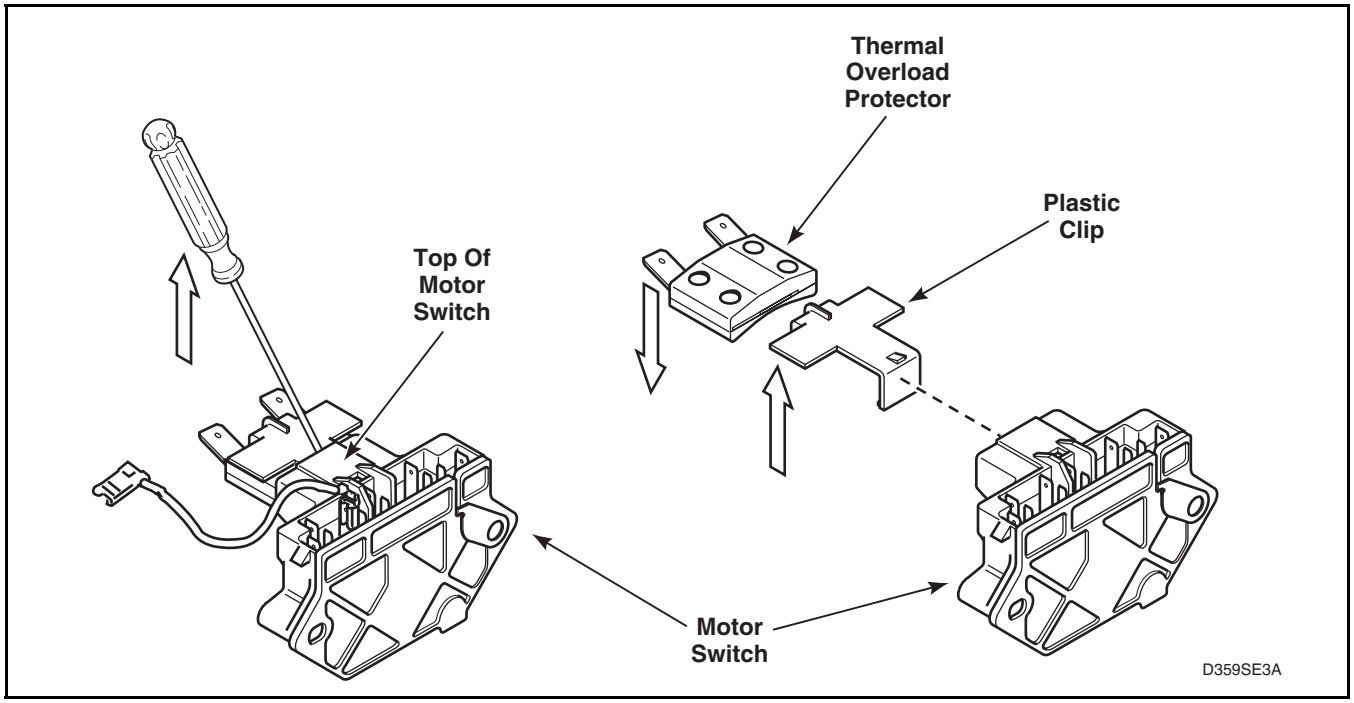

Figure 88

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

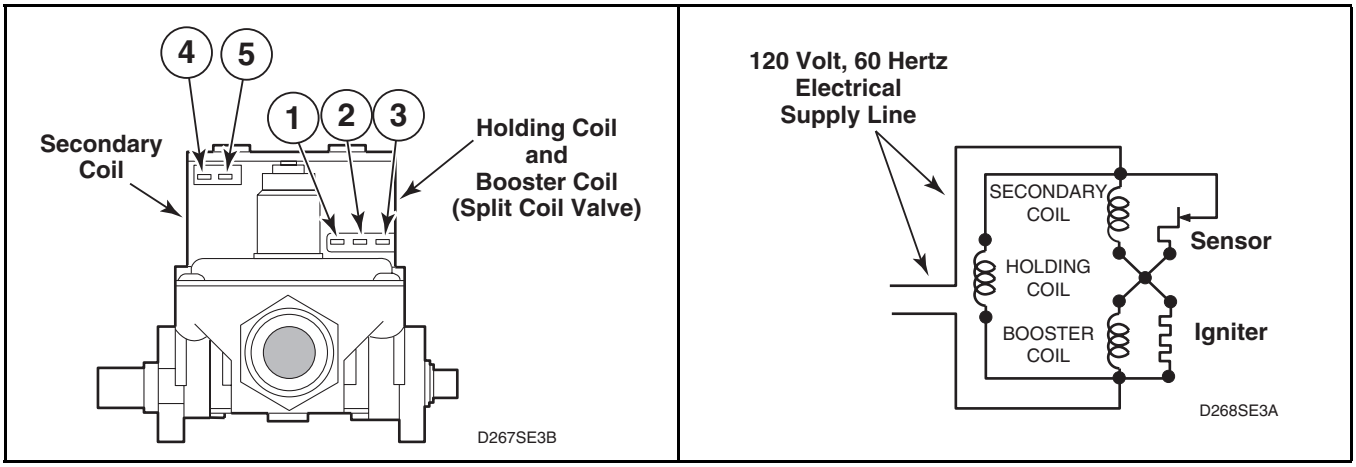

Figure 89

117. BURNER SYSTEM OPERATION (Gas Models – Refer to *Figure 89*.)

a. **Components**

This burner has four basic components: a silicon carbide (glow bar) igniter, burner tube, sensor, and a two-stage gas valve consisting of a split-coil valve and a secondary coil valve. The split-coil valve is opened when the dryer thermostat calls for heat, while the secondary valve does not open until the igniter has attained ignition temperature.

b. **Pre-Ignition Circuits**

When the dryer thermostat calls for heat, circuits are completed through the holding coil, sensor, booster coil and igniter. Both coils must be energized to open the split-coil valve. Once opened, the holding coil can hold the valve open without assistance from the booster coil. The sensor triggers the current to travel around the secondary coil and through the igniter, causing the igniter to get hot.

c. **Burner Circuit**

In approximately 30 seconds, the igniter attains ignition temperature and ignition is made. The heat from the burner flame causes the sensor contacts (located on burner housing beside the igniter) to open. A circuit is then completed through the secondary valve coil, opening the valve and allowing gas to flow.

d. **Momentary Power Interruption**

Upon resumption of power, sensor contacts will still be open, permitting secondary valve to open. However, with the secondary coil in the circuit, the booster coil cannot draw enough current to open the split-coil valve. When sensor contacts do reclose, the secondary valve will close, and the burner system will be in the normal pre-ignition circuit.

e. **Flame Failure**

In case of flame failure, the sensor contacts will re-close in about 45 seconds. This will close the secondary valve and the burner system will be in the normal pre-ignition circuit.

f. **Ignition Failure**

If flame is not established as sensor contacts open, secondary valve will remain open until sensor contacts re-close. Sensor will continue to recycle the igniter and secondary valve (about once per minute) until ignition is made or dryer is turned off.

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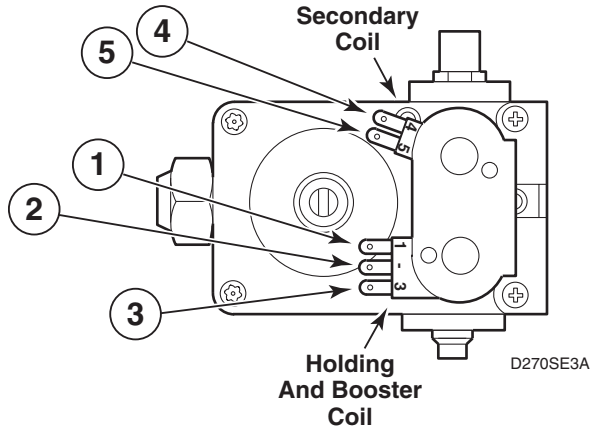
WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

118. ELECTRICAL CIRCUIT TO IGNITION SYSTEM (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.
c. Close main gas shut-off valve. Refer to *Figure 75*.
d. Remove valve wire harness disconnect block from the holding and booster coil. Refer to *Figure 90*.
e. Plug dryer power cord into wall receptacle, and start the dryer in a heat setting (refer to the Operating Instructions supplied with dryer).
f. Set test meter to read AC voltage and apply meter probes into terminals on the dryer harness plug that would correspond to terminals "1" and "2" on the coil. *Figure 89*. Meter should register line voltage in all Fabric settings, except FLUFF which should read “zero” VAC.
g. If meter does not read line voltage in step “f”, check motor switch, thermostats, fabric switch, accumulator, or timer.



GAS VALVE FOR SILICON CARBIDE IGNITION

Figure 90

WARNING

To reduce the risk of fire, explosion and electric shock, close the valve in the gas supply line to the gas dryer and disconnect the electrical power unless gas or power supplies are required to perform test procedure.

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119. GAS VALVE COILS CHECK (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.
c. Close main gas shut-off valve. Refer to *Figure 75*.
d. Remove disconnect blocks from gas valve coils.
e. Set test meter to read Ohms and put meter probes to terminals shown in *Figure 90*, and in the following chart.

COIL TOLERANCE READINGS

Meter probes to terminals:	Meter should read:
Holding Coil – Terminals 1 & 2	1365 ± 25 Ohms
Booster Coil – Terminals 1 & 3	560 ± 25 Ohms
Secondary Coil – Terminals 4 & 5	1220 ± 50 Ohms

NOTE: If meter registers any other readings than those listed above, the respective coil(s) should be replaced.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

120. SENSOR CHECK (Gas Models)

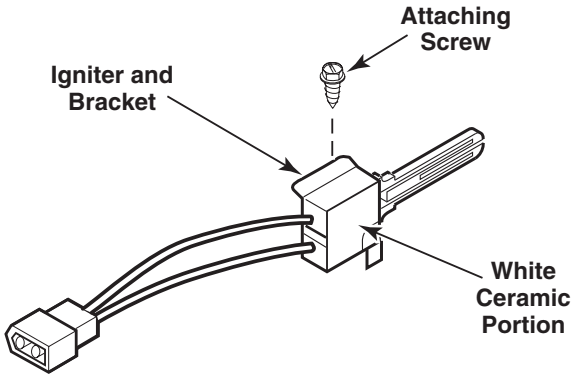
a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel.
c. Close main gas shut-off valve. Refer to *Figure 75*.
d. Remove wires from sensor terminals. Refer to *Figure 49*.
e. Set test meter to read Ohms and put meter probes on sensor terminals. Meter should read "zero" Ohms. If meter registers an Ohm reading of any amount, replace sensor.

121. IGNITER CHECK (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.
c. Close main gas shut-off valve. Refer to *Figure 75*.
d. Disconnect igniter wires at disconnect block.
e. Set test meter to read Ohms and put meter probes on terminals of igniter wires.
f. **Silicon Carbide Igniter –** meter should read between 45 – 200 Ohms. Refer to *Figure 91*.

NOTE: If meter does not read appropriate Ohms, then replace the igniter.

IMPORTANT: Always examine all wires, terminals and connectors to be sure wiring is correct before replacing any components.



SILICON CARBIDE IGNITER AND BRACKET ASSEMBLY

D337SE3A

Figure 91

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

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122. THERMAL FUSE (Electric Models)

a. While supporting the access panel, remove two screws from bottom edge of front access panel. Refer to *Figure 39*.

b. Gently lower the access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 47*.

c. Label and disconnect wires from thermal fuse. Refer to *Figure 51*.

NOTE: Refer to wiring diagram when rewiring thermal fuse.

d. Set multimeter to read Ohms. Apply meter probes to thermal fuse terminals. Multimeter should read 0 Ohms. If the meter does not show any reading (infinite Ohms), then the fuse is open. If the fuse is open, then replace BOTH the thermal fuse and the limit thermostat.

123. HEATER ASSEMBLY (Electric Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.

b. Gently lower the access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 47*.

c. Disconnect wires from heater assembly. Refer to *Figure 51*.

NOTE: Refer to wiring diagram when rewiring heater assembly.

d. Set meter to read Ohms. Apply meter probes to the heater assembly terminals. Meter should read as follows: (Cold Ohms). Refer to *Figure 51*.

Element Color Code	KW	Voltage/Hz.	Resistance Reading
Red	5	240 V 60 Hz.	10.39 ± .31 Ohms Cold
White	4.75	208 V 60 Hz.	8.2 ± .5 Ohms Cold
Green	4.8	240 V 50 Hz.	10.75 ± .32 Ohms Cold
Yellow	4	240 V 50 Hz.	13.03 ± .39 Ohms Cold
Blue	3.1	240 V 50 Hz.	16.7 ± .5 Ohms Cold
Orange	5.35	240 V 60 Hz.	9.72 ± .3 Ohms Cold
Purple	4.25	208 V 60 Hz.	9.27 ± .3 Ohms Cold

124. CYCLING OR LIMIT THERMOSTAT

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.

b. Gently lower the access panel to disengage panel locators from bottom edge of front panel. Refer to *Figure 47*.

c. Label and disconnect wires from thermostat. Refer to *Figure 52*.

NOTE: Refer to wiring diagram when rewiring thermostat.

Cycling Thermostat (S.P.S.T. – 2 Terminals) or Limit Thermostat

d. Set meter to read Ohms.

(1) Apply meter probes to the thermostat terminals.

(2) Meter should read “zero.”

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WARNING

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- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

125. DOOR SWITCH

a. While supporting the access panel, remove two screws from bottom edge of access panel. Refer to *Figure 39*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. Refer to *Figure 47*.
c. Remove two screws holding bottom tabs on front panel to dryer side panels. Refer to *Figure 40*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
d. Disconnect wires from door switch. Refer to *Figure 46*.

NOTE: Refer to model wiring diagram when rewiring door switch.

e. Set meter to read Ohms and apply meter probes on switch terminals 1 and 3 with door closed. You should get “zero” reading.
f. Apply probes to terminals 1 and 2 with door closed. The meter should read “infinite”.
g. Open door. Meter should read “infinite” between 1 and 3 and “zero” between 1 and 2.

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Section 8
Internal Wiring of Dryer Motor Switch

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

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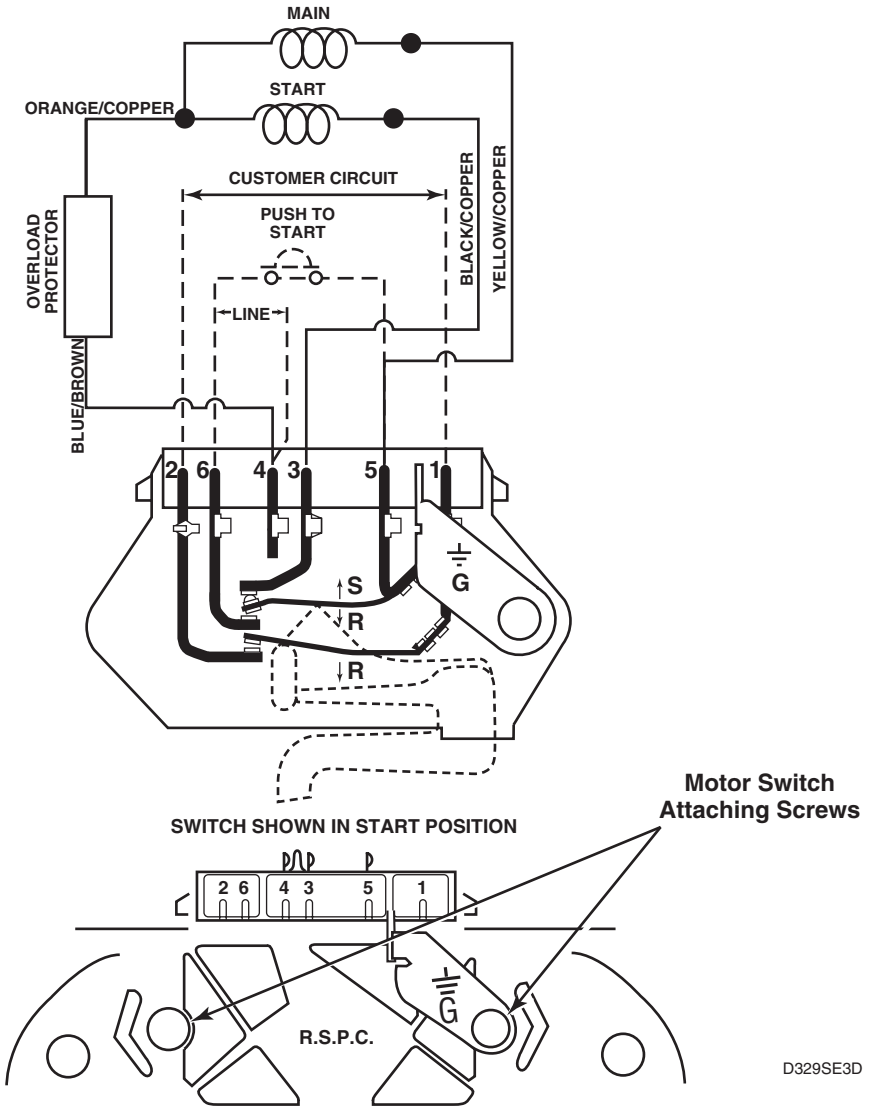

Figure 92

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Notes

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